

2896

A GEOPHYSICAL AND GEOCHEMICAL REPORT

ON THE

SPARK AND JOY CLAIMS

OMINECA MINING DIVISION

55° 126° SE

45 MILES NORTHEAST OF SMITHERS, B. C.

FOR

PALISADE EXPLORATION CORPORATION LTD.

BY

R. W. WOOLVERTON, P. ENG.

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <u>2896</u> MAP
--

BETWEEN

AUGUST 7 AND NOVEMBER 10, 1970

FEBRUARY 26, 1971

VANCOUVER, B. C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2896 MAP

APPENDICES

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- II RADEM SPECIFICATIONS
- III "SABRE" I.P. SPECIFICATIONS
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Mining Recorder's Office
RECORDED
1971
AT
SMITHERS, B.C.

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INTRODUCTION

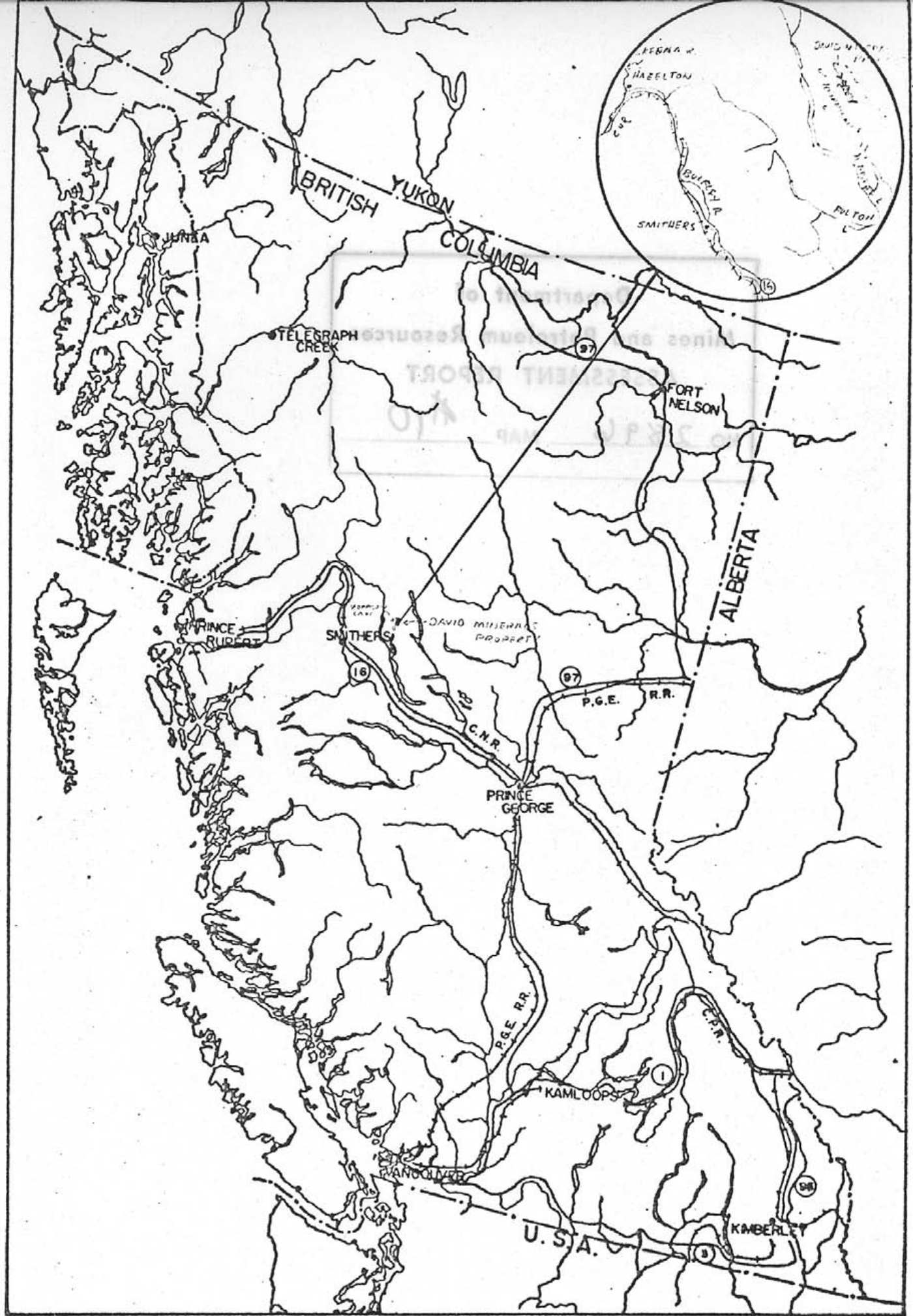
LOCATION

The Spark and Joy claims are at the northeast corner of Morrison Lake about 45 air miles northeast of Smithers, B. C. at Latitude $55^{\circ} 16'$ North and Longitude $126^{\circ} 23'$ West. The area is most conveniently reached by float plane from McLure Lake, near Telkwa, or by helicopter from Smithers (Okanagan) or Houston (Alpine Helicopters). The more tedious route to the claims is by road to Smithers Landing on Babine Lake, by boat from there to the head of Hatchery Arm, by cat road from the Arm to the south end of Morrison Lake, and by boat to the north end of the lake.

Elevations on the claim group range from about 2,400 ft. at lake level to a maximum of 3,000 ft. Exposure is good on about a third of the property, but the remainder is drift covered. Scrub balsam and hemlock are widespread with birch and poplar on the drier hillsides. Several beaver-dammed swamps make travel locally difficult, although the going is about average for the Babine area.

GEOLOGICAL SETTING

The area is underlain (Carter and Kirkham, Map 69-1, B. C. Department of Mines) by two sedimentary-volcanic groups. The older assemblage contains mudstone, greywacke, conglomerate, limestone, tuff and vesicular andesite. The clastic rocks predominate and are locally quite fossiliferous. The group is complexly folded, faulted and



intruded by a few thin sills of hornblende diorite. The younger rocks belong to the Sustut Group (Cretaceous and Tertiary) and include cross-bedded arkose, conglomerate, quartzite and siliceous tuffs. The Sustut, which is confined to the western portion of the property along the shore of Morrison Lake, strikes north-northwesterly and dips steeply to the east. It appears to be locally dreg folded near its north-northwesterly striking faulted contact with the older assemblage.

1970 PROGRAM

In 1969, David Minerals Ltd. (the property vendors) surveyed the claim group with helicopter-mounted magnetic and electromagnetic equipment. Two areas of possible interest were outlined. Subsequent follow-up during 1970, which is the subject of this report, included the establishment of 35 line miles of cut grid and 42 line miles of flagged grid. This grid was soil sampled and surveyed with induced polarization and VLF-EM equipment. All survey work was done by experienced Evergreen Exploration personnel under the writer's supervision.

GEOCHEMISTRY

SOIL SURVEY

SAMPLING PROCEDURE AND ANALYSIS

Soil samples were collected at 200 ft. stations on the grid. They were taken by shovel from the "B" horizon, placed in wet strength paper bags, partially dried at room temperature, and shipped to Barringer Research Laboratory in Vancouver, where they were analyzed for total Cu and Mo. The results are plotted on Maps 2 and 3 which accompany this report. The analytical procedure used by Barringer is described in Appendix I.

RESULTS

The copper and molybdenum values are generally uniformly low and spotty. Most areas of over 40 ppm correlate with swampy areas or other topographic lows and the lower slopes of hillsides where the soils would be expected to contain more copper. Topographic highs, where bed-rock outcrops are mostly very low in copper.

The copper in the soils bear out the lithologic differences between the younger arkose sequence and older greywacke volcanic mudstone sequence. The soils on the older rocks show generally slightly higher copper values. An increase in overburden thickness in the northern part of the area also shows in the copper values. The values are generally lower except in swampy areas. Over a known showing of

very sparse chalcopyrite mineralization, the copper content of the soils shows no appreciable increase above background values. In most cases, molybdenum in the soils was very low and uniform.

GEOPHYSICS

RADEM SURVEY

EQUIPMENT AND SURVEY

The Radem unit used in the survey is a 1-man EM radio receiver utilizing the 12 to 24 kilocycle United States Naval Communication Broadcast Stations. It was built by Crone Geophysics Limited, 3607 Wolfedale Road, Mississauga, Ontario. The instrument utilizes higher than normal EM frequencies and is capable of detecting disseminated sulfides. However, due to the high frequency, it is affected by clay and other conductive overburden. Also, experience indicates that the numerous weak conductors usually present in a "porphyry environment" are masked by 50 ft. or more of cover even if it doesn't contain conductive layers. Some type curves and specifications are included as Appendix II of this report.

Readings were taken using the Cutler, Maine, Station (17.8 Kc) and Seattle, Washington (18.6 Kc). Both in-phase (dip angle) and out-of-phase (HF field strength) readings were recorded. The out-of-phase is a better measure of the intensity of conductivity than is the dip angle. However, the field strength response is a function of the transmitter power (which fluctuates daily) as well as the intensity of nearby conductivity. The results of the radem survey are plotted on Maps 4 to 7 which accompany this report.

A few lines on the south grid were surveyed with a Ronka EM16, also using the Cutler and Seattle Stations.

RESULTS

Optimum coupling is obtained when the bearing from the operator to the transmitter is parallel to the strike of the conductor. Therefore, strong planar conductors such as massive sulfide veins and graphitic sediments will usually give a much stronger response on only one of a pair of orthogonal (or nearly so) frequencies such as Seattle and Cutler. Where conductive fractures are multi-directional, such as in a "porphyry environment," the responses from all the VLF frequencies are similar. Although Cutler and Seattle are not quite orthogonal, an anomalous area indicated by only one of the frequencies is very likely planar.

In general, the VLF responses on the Spark and Joy claims indicate fairly shallow cover (50 ft. or less) over most of the grid area except around the three small lakes between 64 North and 96 North and at the north end of the grid. Although many crossovers were found, only one area appears conductive on both frequencies and has associated out-of-phase response. This area of interest is centered on Line 120 North at 75 West. However, the response on Seattle is very much stronger than that on the Cutler frequency. This would indicate a strong planar conductor with a strike almost perpendicular to the bearing of Cutler from the property or roughly north-northeast.

Several narrow conductors just east of and parallel to the shore of Morrison Lake responded to the Seattle frequency only. Since there are several of them (i.e. 80 North at 109 West), they probably represent shearing in or weak conductivity within the northwest striking Sustut sediments.

I. P. SURVEY

EQUIPMENT AND SURVEY

A "Sabre" 500 watt pulse-type unit was used in the survey. This I.P. unit is manufactured by Sabre Electronics of Burnaby, B. C., and is powered by a 12 volt aircraft storage battery. Steel rods 4 ft. long by 1/2 in. diameter were used as current electrodes. The potential electrodes were two porous pots filled with a supersaturated copper sulfate solution. Where necessary, the current electrodes were "soaked down" with a soapy saline solution to reduce the contact resistance. Communication between the operator and electrode men was by walkie-talkie.

A 400 ft. Wenner Array was used in the survey with 200 ft. spreads used to check anomalous areas. Experience has shown that this unit is capable of penetration equal to the spread when using a Wenner array. At Newman (See Appendix III), a good response was obtained through 100 ft. (measured by several diamond drill holes along the profile) of cover on Line 25 East using a 400 ft. Wenner Array.

RESULTS

The chargeabilities and apparent resistivities recorded during the survey are plotted on Maps 8 and 9, which are enclosed in the pocket in the back of this report.

The southern part of the surveyed area does not have any areas of I.P. interest. Beginning at 42 North and about 50 West and extending northwesterly through the northern part of the property is a large zone of very low apparent resistivity which indicates a possible major geological change. Towards the northern limit of the survey, this low resistivity zone widens to about three-quarters of the length of the survey lines. An irregular area of chargeability highs from 45 West to 100 West on 120 North extends in a roughly triangular shape to 50 West on 152 North. The trend and continuity of this zone is not clear because the lines are interrupted by the swampy pond on Line 136 North.

Notably, two highs on Line 120 North (at 85 West and 95 West), within this triangular area are not repeated on either Line 116 or 124 North. Also, the extreme highs all disappeared when the 200 ft. array was used but the adjacent intermediate chargeabilities remained about the same for the shorter spread. Such erratic response is typical of graphite.

The eastern edge of this triangular area of interest has distinctly different I.P. characteristics from the highs noted above. The chargeabilities increase more smoothly and the highs can be traced from line to line suggesting a sulfide source. Also, this chargeability zone does not fall within the large formational resistivity low discussed previously. The zone has a general north-south trend from 144 North at 52 West to 116 North at 57 West. The chargeability intensity does not appreciably decrease at 200 ft. spreads indicating relatively shallow cover. The one exception to this is at 144 North, 52 West where

the response disappears at the 200 ft. spread. However, an esker was noted on the air photos indicating a local increase in overburden depth.

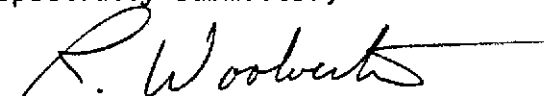
CONCLUSIONS

The southern part of the surveyed area is reasonably well exposed. What little cover is present would probably not mask a geochemical expression. Since not only the soils but also the radem and I.P. were not anomalous in this area, no further work is warranted.

Both the soil sample results and the radem profiles indicate an increase in overburden thickness over the northern portion of the property. A conductive and chargeable zone centered on Line 120 North at 75 West is probably due to a north-northeasterly trending zone of graphite.

The north-south trending I.P. zone through 144 North at 52 West is possibly due to sulfides under locally shallow cover. Although the soil samples were unanomalous, the terrain slopes gently to the northwest into an area of apparently greater overburden depths so that a geochemical expression could be masked.

Respectfully submitted,

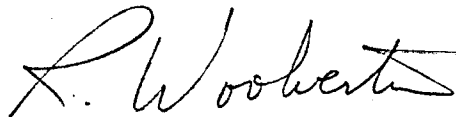


R. W. Woolverton, P. Eng.

STATEMENT OF PROJECT CHARGES
(PER PRECEDING INVOICES)

Evergreen Explorations Ltd. - January invoice	\$21,578.85
Trans-Provincial Airlines Ltd.	35.52
" " " "	54.60
" " " "	62.40
" " " "	78.00
" " " "	125.00
" " " "	80.00
" " " "	58.00
" " " "	114.00
Indian River Exploration Services	3,262.50
" " " "	2,420.53
" " " "	600.00
" " " "	2,400.00
North Coast Air Services Ltd.	99.00
Alpine Helicopters Ltd.	326.25
Okanagan Helicopters Ltd.	900.85
Barringer Research Limited	395.90
" " " "	1,240.70
" " " "	1,531.80
" " " "	<u>1,860.00</u>
TOTAL	<u>\$37,223.90</u>

The undersigned considers the above charges applicable as assessment work.



R. W. Woolverton, P. Eng.

APPENDIX I

GEOCHEMICAL ANALYTICAL PROCEDURE



304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

December 8th, 1969

Evergreen Explorations Limited
635-789 W. Pender Street
Vancouver 1, B.C.

Attention: Mr. Woolverton

Dear Sir:

Our laboratory procedures for your samples are as follows:-

Total Copper - a portion of -80M material is digested in concentrated (soils) perchloric acid, diluted with water and analysed by atomic absorption.

HCl copper - same as above but using a dilute solution of hydrochloric (stream sed.) acid.

Total Molybdenum -
a -80M portion of sample is fused with a carbonate flux and the molybdenum is colorimetrically determined using zinc dithiol.

Total copper was done on the "Donna" and "Red Top" projects and both total copper and moly on the "Allie". Our reports 168-B (for total copper) and 161-B (for HCl copper) had no project no. specified on the work order form received from you.

Should you require any further information, please do not hesitate to contact me.

Yours sincerely

BARRINGER RESEARCH LIMITED

Y. M. Hazeldene

Yvonne Hazeldene
Chief Analyst
Department of Geochemistry

YH:lh

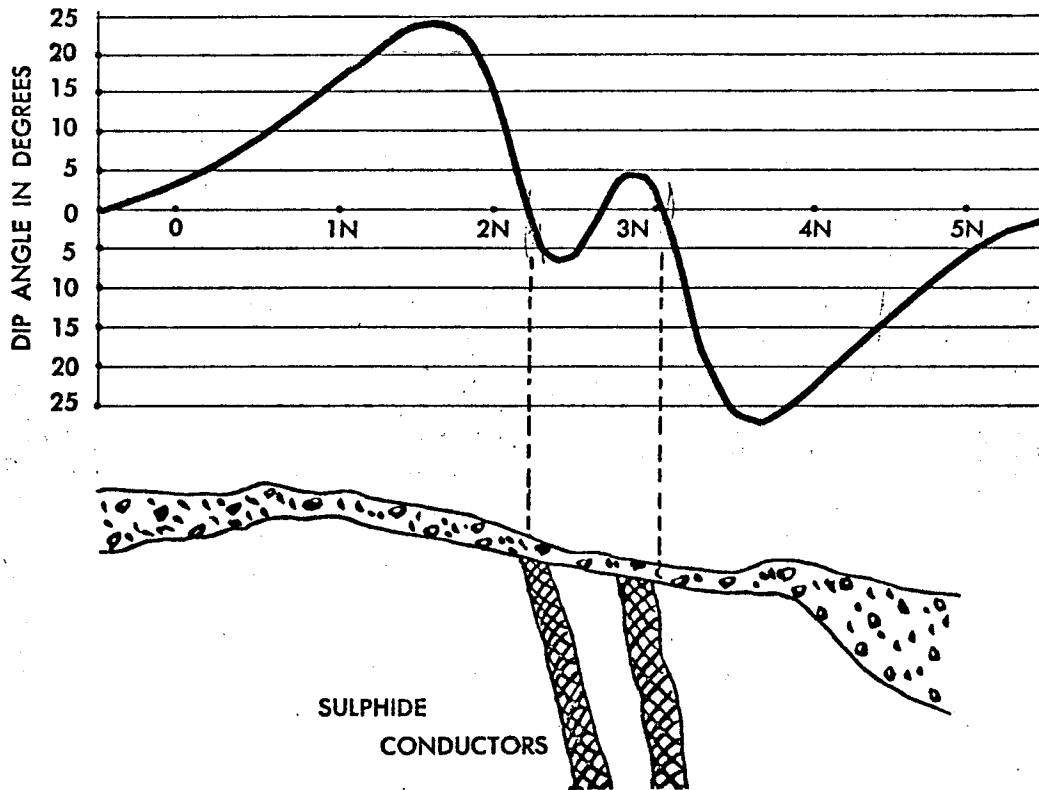
RECEIVED
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APCD
11-11-69

APPENDIX II

RADEM SPECIFICATIONS

Example of a RADEM traverse over a Banded Conductor in the Timmins area of Ontario.



SPECIFICATIONS

- READOUT** — Dip angle of resultant VLF magnetic field component from an inclinometer of $\pm \frac{1}{2}$ degree sensitivity
- NULL INDICATOR** — Both audio (loudspeaker) and visual by means of an averaging field strength meter
- TUNING** — Preset switch tuning
- BATTERIES** — 2 of 9 volt Eveready # 216, independent test indicators
- STATIONS** — Standard 5 stations — Cutler, Maine 17.8; Seattle, Wash. 18.6; Ft. Collins, Colorado 20.0; Annapolis, Md. 21.4; Balboa, Panama 24.0 KCs.
 — Optional — N.W. Cape, Australia 15.5; Lualualei, Hawaii 23.4; Rugby, England 16.0 KCs.
 Other stations as they become operational
- WEIGHT** — Receiver — 4 lb. Leather Case — 2 lb. Shipping Weight — 15 lb.

PRICE — \$2,250.00 Canadian

RENTAL — \$150.00 per month

FIGURE 2.

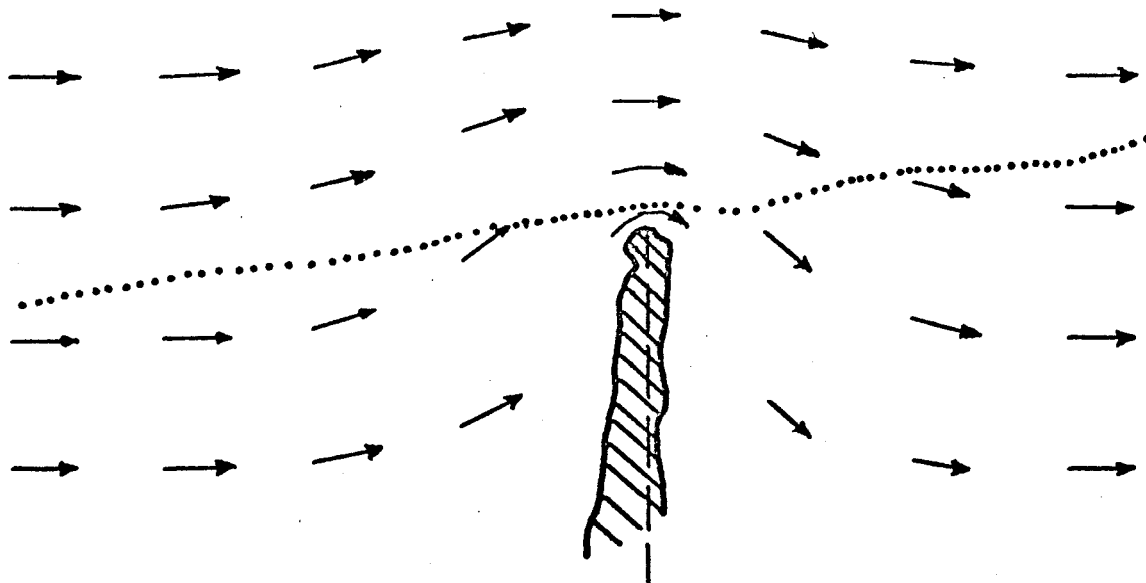
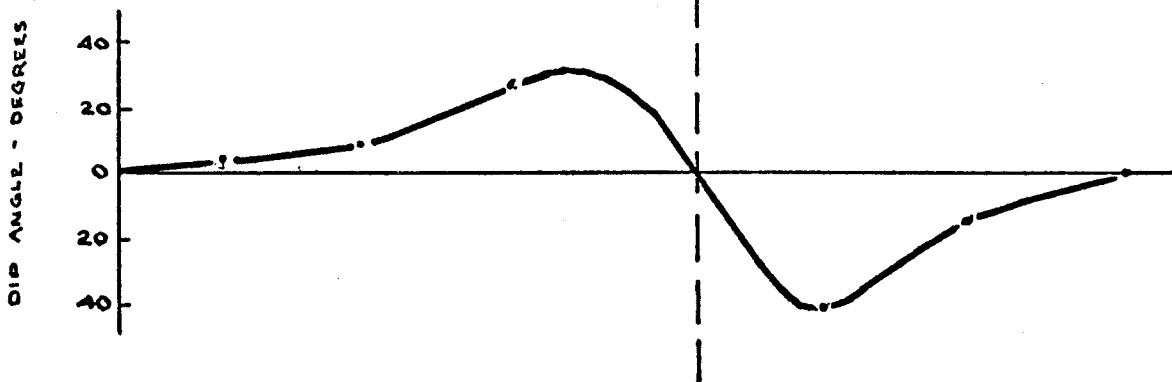


FIGURE 3.

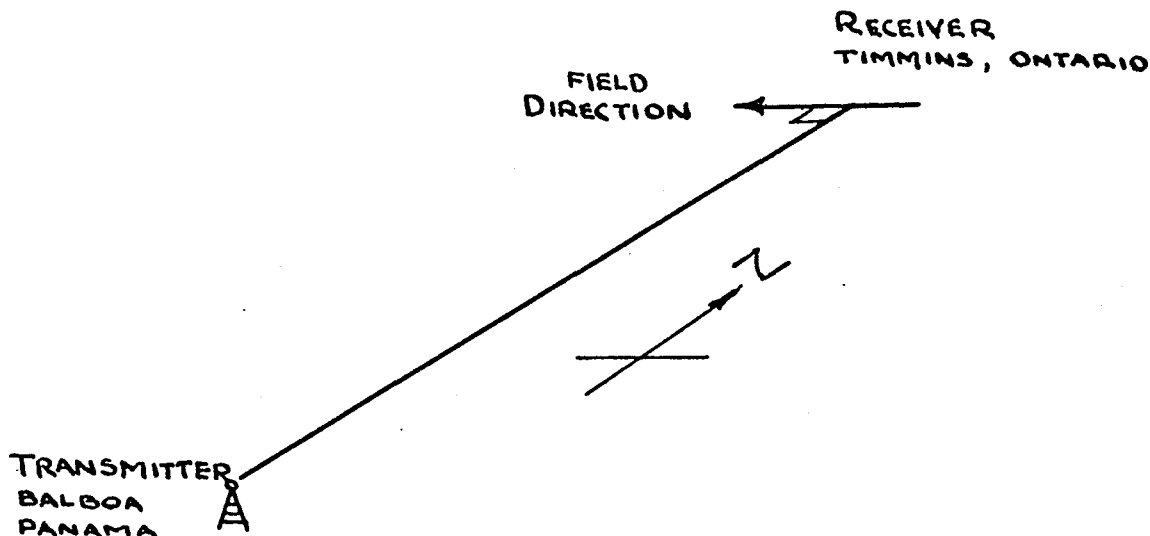


THE VERY LOW FREQUENCY RADIO TRANSMITTING STATIONS

The purpose of these stations is to broadcast over large distances navigational and other information for use by ships and submarines. Numerous stations are situated around the globe and a considerable number are in the process of construction. Operational stations are located at Cutler Maine, Annapolis Maryland, Fort Collins Colorado, Seattle Washington, Balboa Panama, Rugby England, Lualualei Hawaii, Guam and N.W. Cape Australia. The frequency range used varies between 12 and 24 KC's and is thus 10 times higher than the normal frequencies used in mineral prospecting. This results in the RADEM method being more sensitive to lower conductivity and smaller sized bodies than normal EM equipment.

The direction of the magnetic component of the field from a VLF station is horizontal and perpendicular to the line between the operator and the transmitting station (see Figure 4). In this example

FIGURE 4.



the receiver at Timmins, Canada, is using the Panama Station that is due south of Timmins. The normal field direction in this case will be horizontal in an east-west direction. This field would couple with a north-south striking conductor. Thus for maximum coupling and therefore best results select a transmitter station located in the same direction as the geological strike. With the Timmins, Ontario, example Panama should be used in areas of north-south geological strike and Seattle Washington in areas of east-west strike. If the geological strike is not known then it is best to read two stations that are located in directions perpendicular to each other.

The U.S. naval VLF stations are shut down for periods of 4 to 8 hours every week for routine maintenance. This shutdown schedule is published by the U.S. Navy and is forwarded to RADEM users by Crone Geophysics.

OPERATION OF THE RADEM RECEIVER:

- Turn the unit ON by means of the ON-OFF switch. This can be left on all day since the battery drain is very low.
- Turn the station selector switch to the station you wish to use.
- Adjust the volume control knob such that the signal can be clearly heard.

CRONE GEOPHYSICS LIMITED

979 LAKESHORE ROAD E.
PORT CREDIT, ONTARIO

TELEPHONE 274-3704

CASE HISTORY # 1

March 1, 1968

Two Radem (VLF Radio EM) Traverses in the Timmins Area, Ontario.

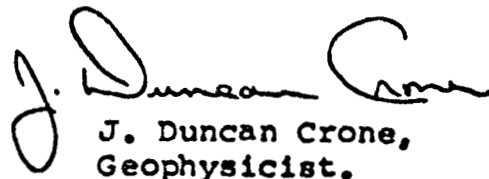
The use of the VLF radio transmitters as an EM primary field source is not new, but rather one of the oldest and earliest (1929) EM methods. The recent revival of this method is due to the greatly increased power and reliability of the transmitter stations. The method still has, however, its original advantages and limitations. If used properly it can be very effective; if pushed beyond its basic limitations disappointing results will be obtained. The following two profiles illustrate this point.

The first profile, over the Canadian Jamieson Mine near Timmins, illustrates the ability of the method to detect the three in echelon ore bodies. This is rather remarkable from three aspects: 1) no other EM method (horizontal loop, vertical loop - fixed and broadside, or JEM) was capable of detecting even one of these ore lenses; 2) the traverse crossed the yard of a producing mine, thus operating in an area of high hydro noise; 3) the dip angles obtained were very large, $+30^{\circ}$ to -30° .

The ore lenses are excellent conductors, but were not detected by previous EM surveys, due to their being discontinuous and of limited size.

The second profile, also from the Timmins area, is a traverse over a strong conductor buried below 75 ft. of clay and sand overburden. The RADEM profile fails to detect the conductor which is clearly outlined by the dual frequency vertical loop survey. (Note: The ratio of low frequency, 480 cps, to high frequency, 1800 cps, is unity.) This illustrates the inability of the VLF - EM method to penetrate the overburden. The VLF - EM method will produce large tilt angles from the clay bed itself. These large angles will occur towards the edge of the clay bed and thus complicate interpretation in these areas.

Conclusion: The VLF - EM method is a highly effective and rapid reconnaissance tool. It is limited by its high frequency and the inability to interpret from the results the conductivity and shape of the conductor. Until more experience is gained, this method should be used in shallow (less than 30 ft.) overburden areas.

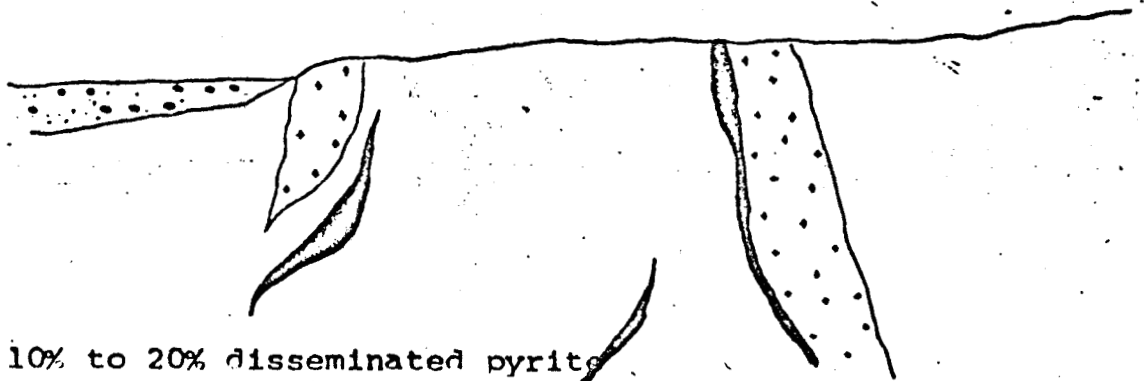
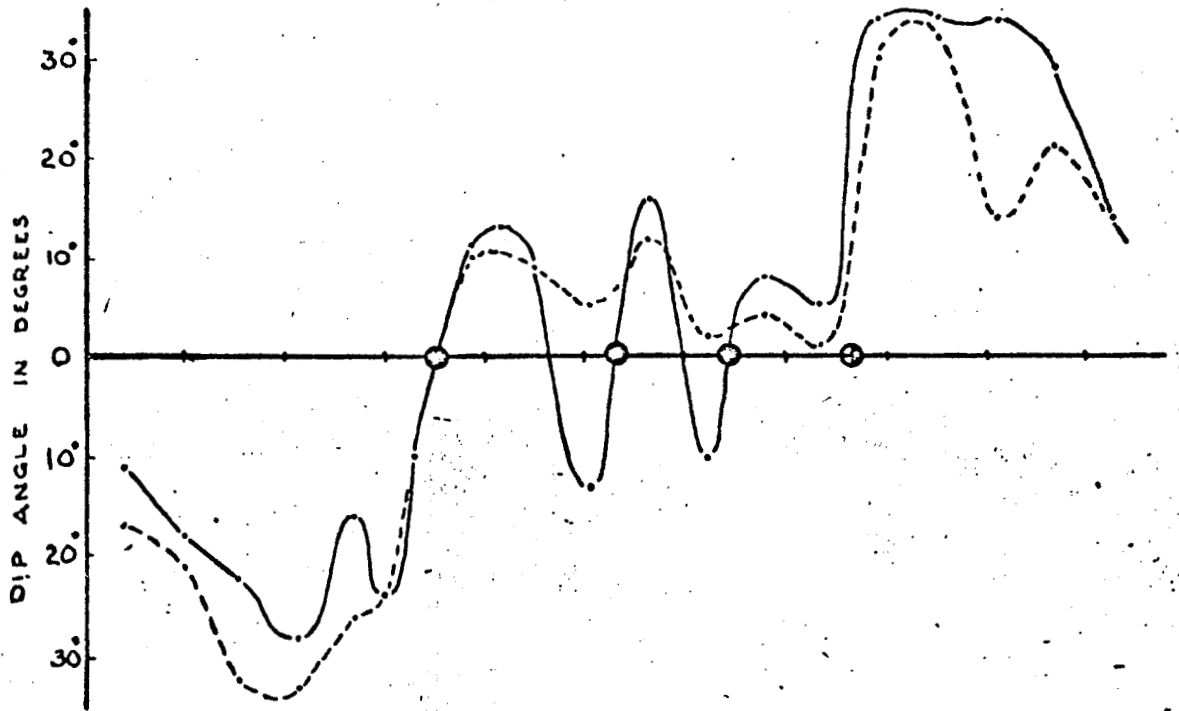

J. Duncan Crone,
Geophysicist.

CASE HISTORY # 1

RADEM PROFILES OVER CANADIAN JAMIESON MINE, TIMMINS, ONTARIO.

Scale 1" = 20°; 1" = 200'

- Annapolis 21.4 kcs
- - - Panama 24.0 kcs
- True Cross-Over
- ⊙ Indicated Cross-Over



10% to 20% disseminated pyrite



Massive Sulphides

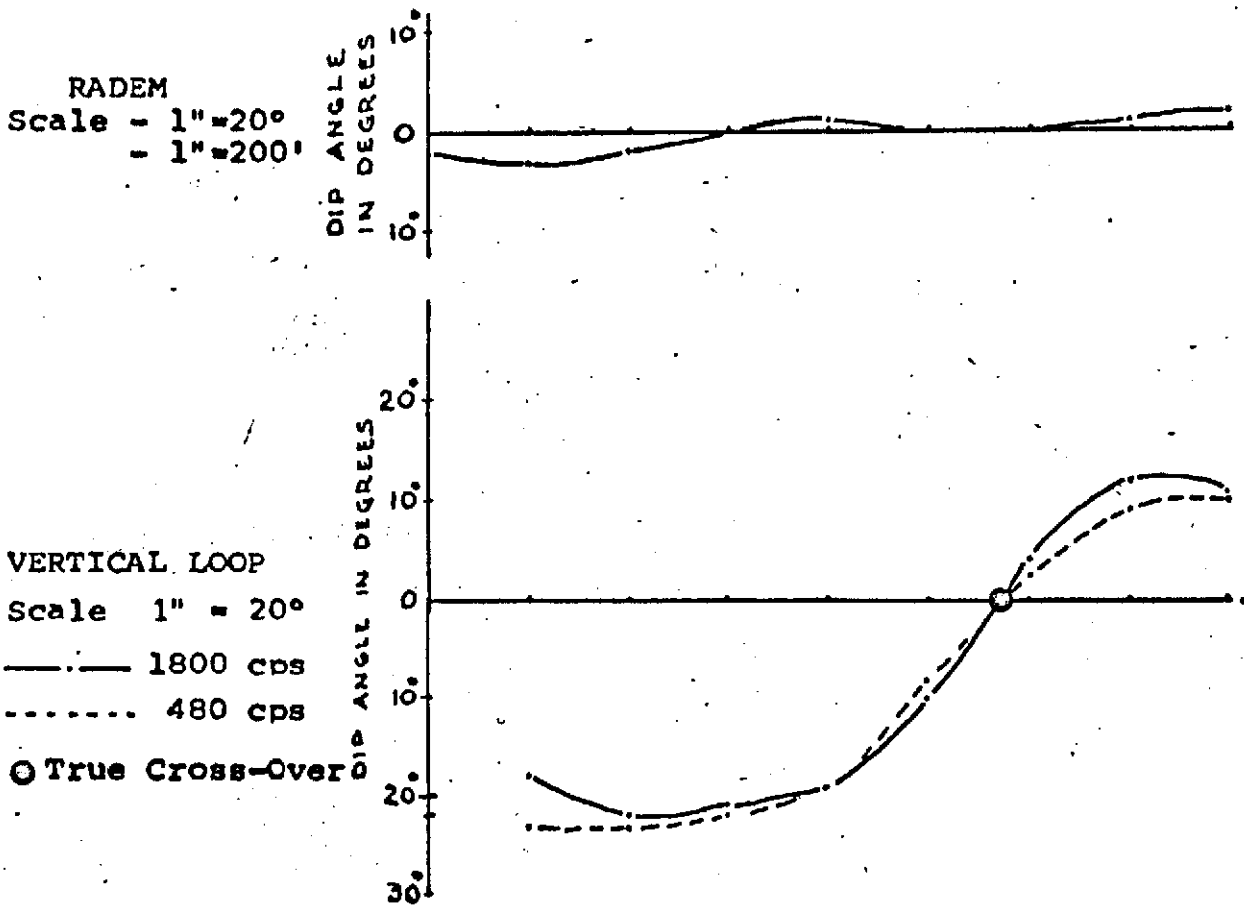
Sizes of ore lenses - 105,000, 135,000 and 280,000 tons

Only one of the ore lenses outcrops

Overburden is shallow over mineralized area.

CASE HISTORY # 1

RADEM AND DUAL FREQUENCY VERTICAL LOOP TRAVERSES OVER AN EXCELLENT CONDUCTOR BURIED AT MODERATE DEPTH (75'), TULLY TOWNSHIP, TIMMINS, ONTARIO.



Graphitic conductor with 10% pyrite

Depth of overburden = 75'

Overburden extends for at least one mile in all directions

APPENDIX III

"SABRE" I. P. SPECIFICATIONS

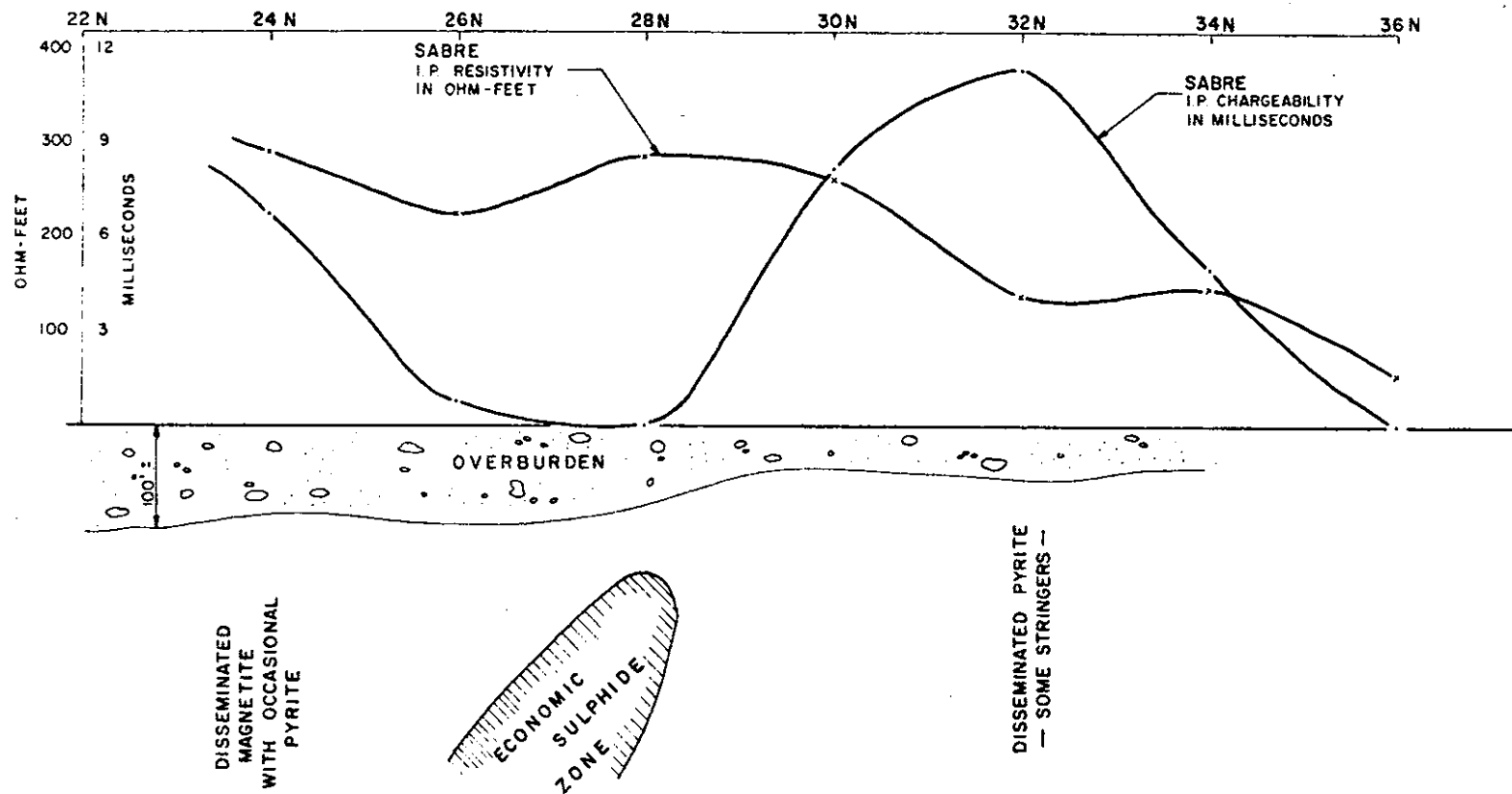
INDUCED POLARIZATION:

The Sabre Portable Pulse Type instrument is a 500 watt unit capable of 3 or 4 hundred foot penetration as shown on the accompanying profiles. Very little reduction in anomaly intensity was noted over the northern limb of Noranda's Newman ore body, where it is covered by 100 feet of glacial till.

Because of its light weight, the "Sabre" is ideal for reconnaissance work. Using a 400 foot Wenner array, Radem (V.L.F./E.M.), and Magnetometer readings can be taken, soil samples collected, and the chargeability and resistivity determined by a 4 man crew simultaneously in open bush without pre-existing lines. Cut lines are necessary only in areas of high magnetic intensity where it is impossible to maintain a straight line by compass.

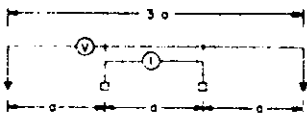


The "SABRE" at NEWMAN



INSTRUMENT

SABRE - PORTABLE PULSE TYPE
500 WATTS $\alpha = 400'$ WENNER ARRAY



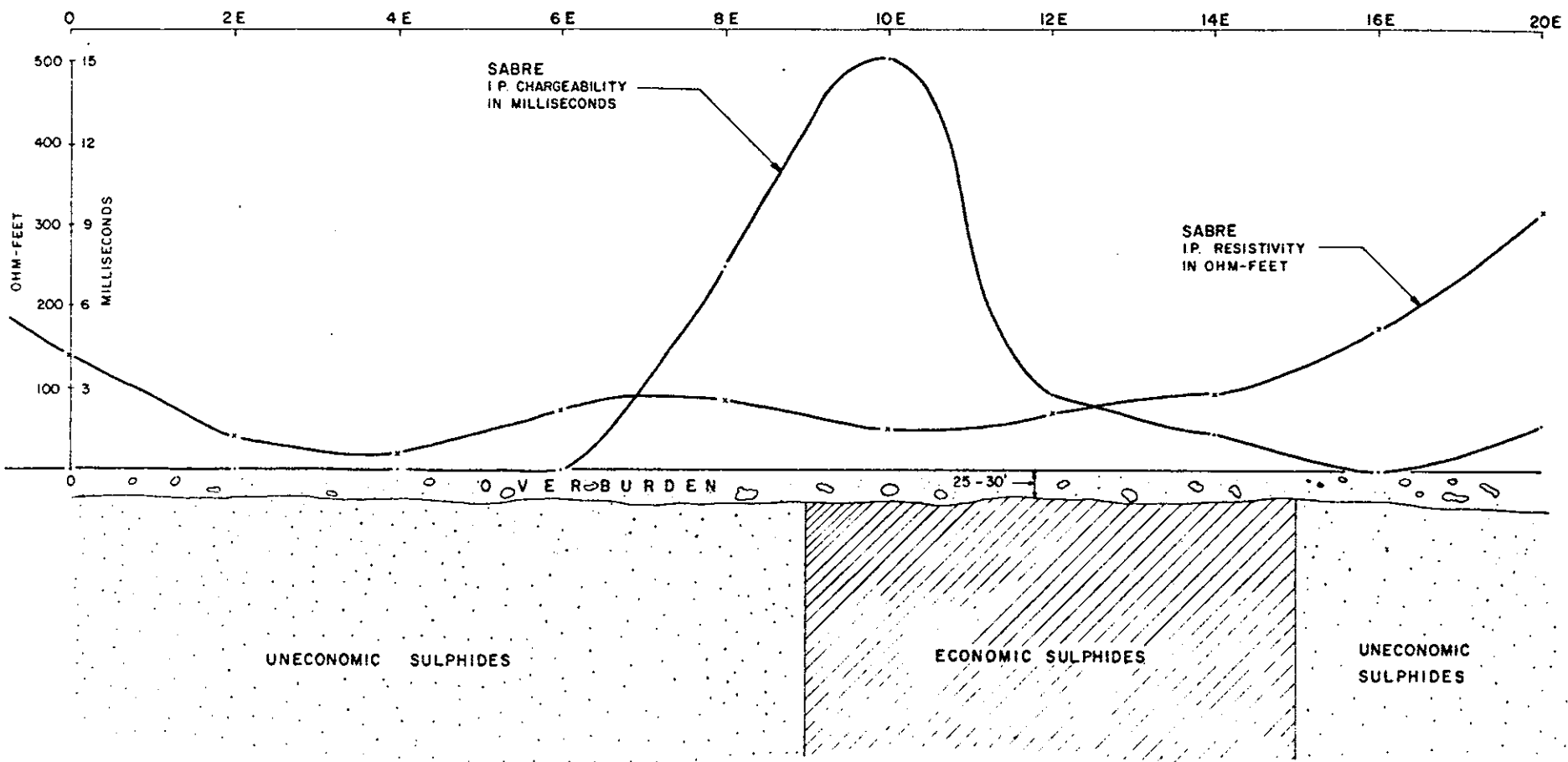
NOTE:

GEOLOGICAL DATA COURTESY OF
NORANDA EXPLORATION CO. LTD.

LINE 25 E
NEWMAN PROPERTY
AT
BABINE LAKE, B.C.

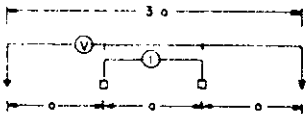


Evergreen Explorations Ltd.



INSTRUMENT

SABRE - PORTABLE PULSE TYPE
500 WATTS $\sigma = 400'$ WENNER ARRAY



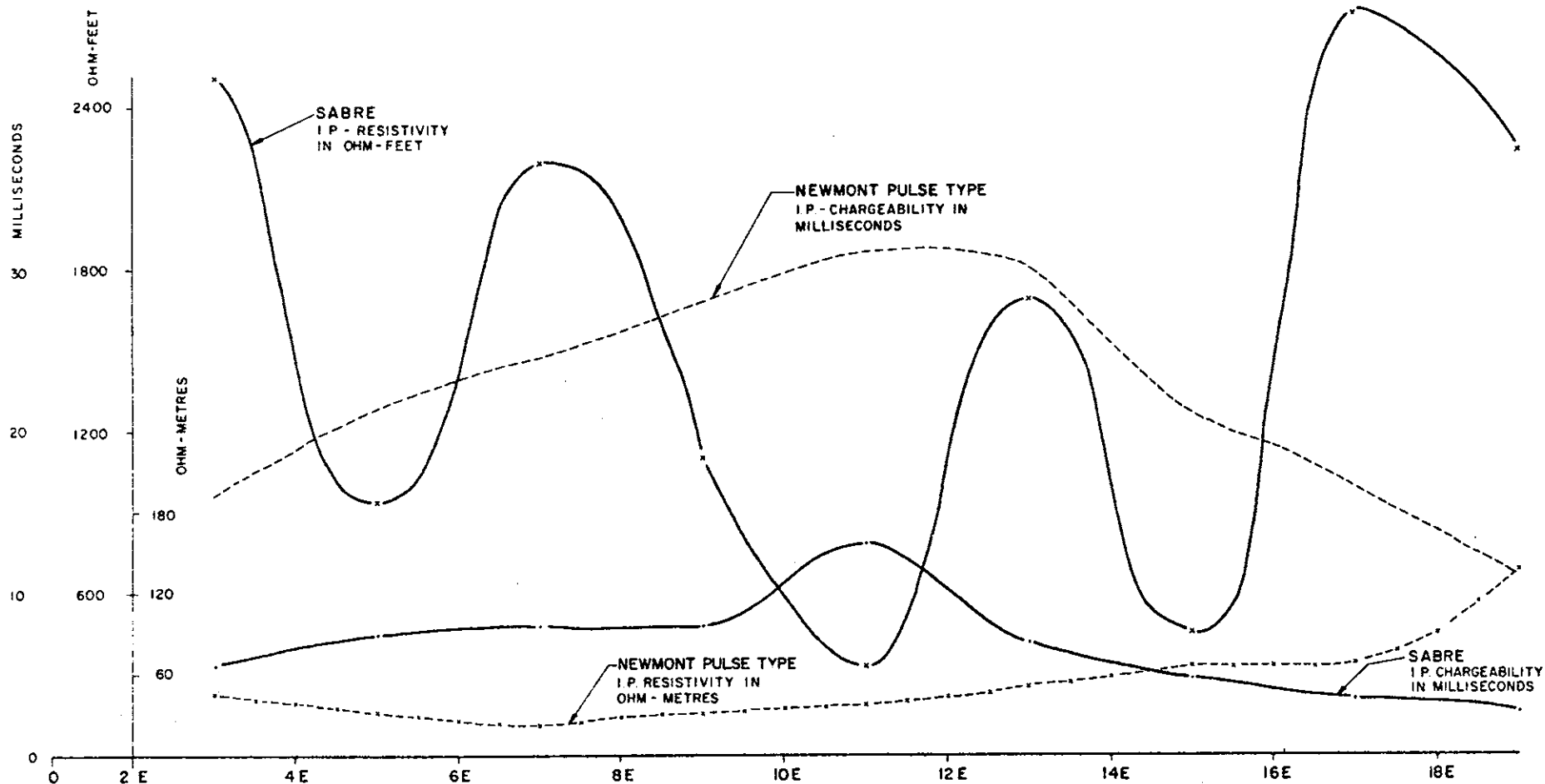
NOTE:

GEOLOGICAL DATA COURTESY OF
NORANDA EXPLORATION Co LTD.

LINE 20 N
NEWMAN PROPERTY
AT
BABINE LAKE, B.C.



Evergreen Explorations Ltd.



INSTRUMENTS

SABRE - PORTABLE PULSE TYPE
500 WATTS $a = 200'$ WENNER ARRAY

NEWMONT - PULSE TYPE
7500 WATTS $n = 1, a = 200'$ POLE-DIPOLE

NOTE

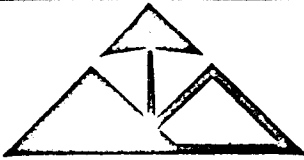
SURVEY PERMISSION COURTESY OF
CYPRUS EXPLORATION CORPORATION LTD.

LINE 16 N
BIG ONION PROSPECT

AT
SMITHERS, B.C.

APPENDIX IV

DECLARATION OF EXPENDITURES



Evergreen Explorations Ltd.

• R. WOOLVERTON
GEOLOGIST, P.ENG.

• R. C. O'BRIEN
FIELD SUPERVISOR

• JOHN C. OSWALD & CO., C.A.'s
ACCOUNTANTS:

635 - 789 W. PENDER ST.
VANCOUVER 1, B.C., CANADA

CONTRACT EXPLORATION

• 5424 HALIFAX ST., BURNABY 2, B.C., CANADA, PHONE - 299-6998

• P.O. BOX 604, SMITHERS, B.C., CANADA PHONE - 847-3523

January 11, 1971.

Palisade Exploration Corporation Ltd.,
c/o Cyprus Explorations Corp. Ltd.,
510 West Hastings Street,
Vancouver 2. B.C.

I N V O I C E (David Project)

Geochemical and geophysical survey at Morrison Lake, B.C.,
per contract as follows -

125 line miles @ \$130/mile	\$ 16,250.00
365 man days room and board @ \$7/day	<u>2,555.00</u>
	<u>18,805.00</u>

<u>Disbursements</u>	<u>Chq. #</u>		
Trans-Provincial Airlines	782	\$ 140.00 V	
Trans-Provincial Airlines	806	142.00 V	
Trans-Provincial Airlines	836	135.00 V	
B.C. Telephone Co.	854	20.50 V	
Trans-Provincial Airlines	864	207.70 V	
Greyhound Lines	R.W. #27	8.65 V	
Okanagan Helicopters	874	1,745.00 V	
Alpine Helicopters	875	300.00 V	
Trans-Provincial Airlines	893	45.00 V	
Greyhound Lines	R.W. #28	<u>30.00 V</u>	<u>2,773.85</u>
			<u>21,578.85</u>

Less received on account from
Cyprus Explorations Corp. Ltd. -

1970

October 30th

\$ 5,130.00

December 9th

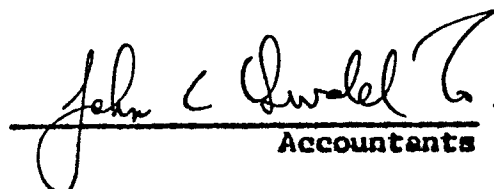
10,295.00

15,425.00

\$ 6,153.85

V - copies of invoices attached

E & O E


Accountants

Trans-Provincial Airlines Ltd.

CHARTER AND
CONTRACT TICKET

Invoice
Number

Report
Number

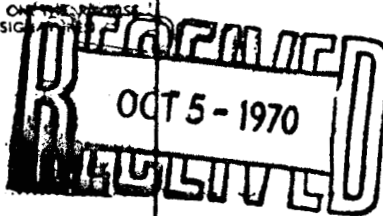
Charge to: *CYPRUS EXPLORATION*

Date: *20/9/70* Cash Phone
 A/C Type: *Boeing* CF- *TC-5* Warrant or Reg. No.
 Base: *Malindi* Pilot: *J. Marshall*

From: *Malindi* To (1) *Malindi*
 (2) To (3)
 (4) To (5)

FARE *70* Miles @ \$ *78* \$ *54.60*
 Hours @ \$
 Contract Rate
 Waiting Time @ \$
 Extra Landings @ \$
 Pilot Expenses
 Other *Don*
TOTAL CHARGES \$ *54.60* ✓

Authorized By: *[Signature]*
 THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED: (PASSENGERS' SIGNATURES)
 1 *[Signature]* 7
 2 8
 3 9
 4 10
 5 11
 6 12
Nº 15155



Trans-Provincial Airlines Ltd.

CHARTER AND
CONTRACT TICKET

Invoice
Number

Report
Number

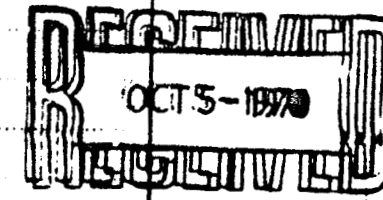
Charge to: *Cyprus ~~Exploration~~ Exp. Corp*

Date Cash Phone
 A/C Type: *Super cut* CF- *JUE* Warrant or Reg. No.
 Base: *Malindi* Pilot: *J. Marshall*

From: *Malindi* To (1) *Malindi*
 To (2) To (3)
 To (4) To (5)

FARE *96* Miles @ \$ *37* \$ *35.52*
 Hours @ \$
 Contract Rate
 Waiting Time @ \$
 Extra Landings @ \$
 Pilot Expenses
 Other *Don*
TOTAL CHARGES \$ *35.52* ✓

Authorized By: *[Signature]*
 THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED: (PASSENGERS' SIGNATURES)
 1 *R.W* 7
 2 8
 3 9
 4 10
 5 11
 6 12
Nº 15129



Trans-Provincial Airlines Ltd.

Fit Report Number

CHARTER AND CONTRACT TICKET

Invoice Number

Charge to: *CORPUS EXPLOITATION*

Date *8/11/70* Cash Phone
 A/C Type *54000* CF- *505* Warrant or Reg. No.
 Base *Montreal* Pilot *S. Biron*

From: *Montreal* To (1) *Montreal*
 To (2) *Montreal* To (3)
 To (4) To (5)

FARE *1000* Miles @ \$ *78* \$ *7800*
 Hours @ \$

Contract Rate

Waiting Time @ \$

Extra Landings @ \$

Pilot Expenses

Other

TOTAL CHARGES

Authorized By *P. G. Bland*

THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED (PASSENGERS' SIGNATURES)

1 *George B. Bland*
 2 *not filled* 8

RECEIVED
 OCT 1 - 1970

No 14878

Trans-Provincial Airlines Ltd.

Fit Report Number

CHARTER AND CONTRACT TICKET

Invoice Number

Charge to: *CORPUS EXPLOITATION*

Date *8/11/70* Cash Phone
 A/C Type *54000* CF- *505* Warrant or Reg. No.
 Base Pilot *S. Biron*

From: *Montreal* To (1) *Montreal*
 To (2) *Montreal* To (3)
 To (4) To (5)

FARE *1000* Miles @ \$ *60* \$ *6240*
 Hours @ \$

Contract Rate

Waiting Time @ \$

Extra Landings @ \$

Pilot Expenses

Other

TOTAL CHARGES

\$ *6240*

Authorized By *P. G. Bland*

THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED (PASSENGERS' SIGNATURES)

1
2
3
4
5
6

7
8
9
10
11
12

RECEIVED
 OCT 29 1970
RECEIVED

No 14396

Daw. 143

Trans-Provincial Airlines Ltd.

Flt. Report Number	CHARTER AND CONTRACT TICKET	Invoice Number
--------------------	-----------------------------	----------------

Charge to: *CYPRUS EXPL CORP. LTD.*

Date <i>Aug 23 55</i>	Cash	Phone
A/C Type <i>SEALER</i>	CF- <i>30</i>	Warrant or Reg. No.
Base <i>YD</i>	Pilot <i>J.M. ARSENAULT</i>	
From <i>S.M. WERS</i>	To (1) <i>MORRISON</i>	
To (2) <i>S.M. WERS</i>	To (3)	
To (4)	To (5)	

FARE *1.00* Miles @ \$ *80* \$ *80.00*

Hours @ \$

Contract Rate

Waiting Time @ \$

Extra Landings @ \$

Pilot Expenses

Other

TOTAL CHARGES

\$ *80.00*

Authorized By *Pete Blond*

THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED (PASSENGERS' SIGNATURES)

- 1 7
- 2 8
- 3 9
- 4 10
- 5 11
- 6 12

N^o 14953

David M.
143

Trans-Provincial Airlines Ltd.

Flt. Report Number	CHARTER AND CONTRACT TICKET	Invoice Number
--------------------	-----------------------------	----------------

Charge to: *CYPRUS EXPL CORP. LTD.*

Date <i>8/21/55</i>	Cash	Phone
A/C Type <i>11725</i>	CF- <i>11</i>	Warrant or Reg. No.
Base <i>Pike Lake</i>	Pilot <i>J.M. ARSENAULT</i>	
From <i>Pike Lake</i>	To (1) <i>MORRISON (K. W.)</i>	
To (2) <i>Pike Lake</i>	To (3)	
To (4)	To (5)	

FARE *1.00* Miles @ \$ *110* \$ *110.00*

Hours @ \$

Contract Rate

Waiting Time @ \$

Extra Landings @ \$

Pilot Expenses

Other *INTERNAL MIN*

TOTAL CHARGES

\$ *125.00*

Authorized By *Pete Blond*

THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED (PASSENGERS' SIGNATURES)

- 1 7
- 2 8
- 3 9
- 4 10
- 5 11
- 6 12

N^o 14685

David M.

Trans-Provincial Airlines Ltd.

File Report Number

CHARTER AND CONTRACT TICKET

Invoice Number

Charge to:

CYPRUS MINES

EXPLORATION

Date

Oct 6

Cash

A/C Type

C-105

Phone

Base

MCLURE

Pilot

CAMERON

Warrant or Reg. No.

From:

MCLURE

To (1)

MORRISON

To (2)

MCLURE

To (3)

To (4)

To (5)

FARE

96

Miles @ \$

60

\$ 58.00

Hours @ \$

Contract Rate

Waiting Time

Extra Landings

Pilot Expenses

Other

TOTAL CHARGES

\$ 58.00

Authorized By

C. McFall

THIS TICKET IS EXPRESSLY SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF TICKET AND WHICH ARE HEREBY ACCEPTED (PASSENGERS' SIGNATURES)

- 1 Mark Wilson 7
- 2 Gregg Wilson 8
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

RECEIVED
... T 291970

Doc. 143

No 13862

Sept. 10th - Oct 30th 1970

M. Cypress Exploration Corporation Ltd.

DAVID #143

1101-510 West Hastings St.
Vancouver 2 B.C.

In account with Indian River Exploration Services

Terms _____

Box 635
Smithers B.C.

Project 143				
Morrison Lake				
6 1/2 miles of cut line @ 125 ⁰⁰ per mile				812 50
25 miles flag and blazed lines @ 75 ⁰⁰ per mile				1875 00
5 1/2 miles line chopped with axes @ 100 ⁰⁰ per mile				550 00
Cut 1 helicopter pad				25 00
TOTAL				3262 50

APPROVED
 NO. 24
 [Signature]

Aug. 21 - Sept. 9

1970

M Cyprus Exploration Corporation Ltd.

1101 - 510 West Hastings Street
Vancouver 2, B.C.

In account with Indian River Exploration Services

Box 635, Smithers, B.C.

Terms Please expedite

Project 143

Morrison Lake

12 miles cut grid lines @ 125.00 per mile

✓ 1500.00

11 miles blazed and flagged line @ 75.00 per mile

✓ 825.00

1 mile access trail

✓ 100.00

Total

2425.00

Less: Attached Bill

4.47

2,420.53

RECEIVED
SEP 28 1970
RECEIVED

APPROVED
Carew McNeil
NOV 2 1970
FURNISHMENT

AUG 7th - AUG 21st

1970

M. CYPRUS EXPL. CORP LTD

In account with INDIAN RIVER EXPLORATION SERVICES

Box 635 SMITHERS B.C.

Terms _____

(PER PETE BLAND)

PROJECT # 143

MORRISON LAKE

15 MILES CUT GRID LINES @ 125⁰⁰ PER MILE

1875⁰⁰

7 MILES OF BLAZED AND FLAGGED GRID
LINKS @ 75⁰⁰ PER MILE

525⁰⁰

TOTAL

2400⁰⁰

RECEIVED
AUG 31 1970
REGISTRY

SOUTH COAST AIR SERVICES LTD.

~~P.O. BOX 410 - PRINCE RUPERT, B.C.~~
 P.O. Box 385 Smithers B.C.
 Charter and Contract Ticket

Flt. Report Number	TELEPHONES: 624-6452 AND 624-6434	Invoice Number
--------------------	--------------------------------------	----------------

Charge to: ~~FEEDS~~ CYPRUS EXPLORATION
201-510 W MORRISON VAN. 200
DAVID MINERAL PROJECT.

Date <u>AUG. 29/70</u>	Cash	Phone
A/C Type <u>CESSNA</u>	CF- <u>VZS</u>	Warrant or Reg. No.
Base <u>SMITHERS</u>	Pilot <u>J. HODGE</u>	

From: SMITHERS To (1) MORRISON
 To (2) SMITHERS To (3) MORRISON
 To (4) SMITHERS To (5)

FARE <u>180</u>	Miles @ \$ <u>55</u>	\$ <u>99.00</u>
	Hours @ \$	
Contract Rate		
Waiting Time @ \$		
Fuel Landings @ \$		
Port Expenses		
Other (Including Gas Surcharges, Etc.)		
TOTAL CHARGE		\$ <u>99.00</u>

David

Authorized [Signature]
 SEP 28 1970
 This ticket expressly subject to the conditions printed on the reverse hereof, which are hereby accepted:
 (Passenger Signatures)

For Office Use Only

A N^o 445



HELICOPTERS LTD

P.O. BOX 209 KELOWNA BRITISH COLUMBIA

CYPRESS EXPLORATION CORP. LTD.,
822 - 510 W. HASTINGS ST.,
VANCOUVER 2, B.C.

INVOICE NO K 2022

DATE SEPTEMBER 17, 1970

CONTRACT NO Y800

WORK ORDER NO

TO: CHARGE FOR HIRE OF BELL 47G3B HELICOPTER
IN THE HOUSTON AREA

CF-NOB AUG.30/70 FLIGHT REPORT NO. 3029 2:15 hrs.

2 hrs. .15 mins. @ \$145.00 per hr. \$326.25

TOTAL AMOUNT DUE THIS INVOICE \$326.25

A/C	PILOT	LOCATION	DATE	RA
47G3B	John Smith	Houston	Aug 30 70	1
CF-NOB	John Smith	Houston	Aug 30 70	1
FROM	TO	TIME UP	TIME DOWN	FLIGHT HOURS

I certify that the flying was done under the above autho
SIGNATURE *[Signature]*

INVOICE COPY

I hereby authorize the charter flight(s) to be recorded on
sheet and I certify that I am empowered to give this authori-
on behalf of the above-named charterer and in the event of
of this authority I shall be responsible for payment of the c
herein incurred.

NAME _____
ADDRESS _____

CALL FIELD, CALGARY 67, ALBERTA. BOX 209, KELOWNA/
Charterer *Cypress Exploration Corp.*
Billing address *822 - 510 West Hastings St
Vancouver 2, B.C.*

3029 ALPINE HELICOPTERS LTD

BASE SMITHERS

BASE NO

DATE

FLIGHT REPORT

112 22 10 70

16791



OKANAGAN HELICOPTERS LTD.

HEAD OFFICE
VANCOUVER INTERNATIONAL AIRPORT
RICHMOND, B.C.

LOCATION OF FLIGHT

Local

FLIGHT LOCATION

185

TYPE OF FLIGHT

ACCOUNT NO
20530 4

AIRCRAFT REG. CT -
CAB

TYPE OF CONTRACT - X
 DAILY MINIM TERM

STATE OF AC-
UNSEW-
ICEABLE STORE

CYPRUS EXPLORATIONS LTD.

1101-510 W HASTINGS ST.

VANCOUVER 2 B.C.

G. FREEMAN

CHARTERER

FUEL & OIL - X		FLYING HOURS ACCORDING TO FUEL USED		PUR. ORDER NO.	
O.H. LTD.	<input checked="" type="checkbox"/> CUST.	O.H.L.	<input type="checkbox"/> CUST.		

PILOT 1

PILOT 2

OPERATION	TAKE-OFF	LAND	FLYING TIME
<u>Smithers - Morrison Lake Area - Smithers</u>			<u>35</u>
<u>Camp & Crane Marsh</u>			
<u>7 Sump Lake</u>			
<u>#143</u>			
RECEIVED OUR TERMS ARE NET 30 DAYS - Interest of 1% per NOV 2 - 1970 Month will be charged if not paid within 30 days.			
NO. OF PASSENGERS	DETAILS OF CHARGES	EXPENSE CLAIM NO.	AMOUNT
FREIGHT LBS.			
<u>4500</u>			
	NON REV. HRS.	RATE	REVENUE HRS.
		<u>23000</u>	<u>35</u>
	SUB TOTAL →		<u>900.85</u>

BY THE SIGNING OF THIS FLIGHT REPORT I ACKNOWLEDGE THAT THE TERMS AND CONDITIONS THEREOF AS SET FORTH IN THE TARIFF FILED WITH THE A.T.S. ARE AVAILABLE FOR EXAMINATION AT OKANAGAN HELICOPTERS LTD.

SIGNED FOR CHARTERER BY
R Woolbert

SIGNED FOR OKANAGAN HELICOPTERS LTD. BY
G. Freeman

EXTRA CHARGES OR ADJUSTMENTS
TOTAL → \$ 900.85
CUSTOMER INVOICE



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

143

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: October 1, 1970

PROJECT: 120-33

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 272-B

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

Cyprus Exploration Corp. Ltd.,
1101 - 510 W. Hastings St.,
Vancouver 2, B. C.

TERMS: NET

AUTHORITY: Mr. Paul Sawyer - Your Proj. 143

TO: Geochemical Analysis

107 Samples analysed for total copper	@ \$1.00 each	107.00
107 Samples analysed for total molybdenum	@ \$2.50 each	267.50
107 Soil sample preparation	@ \$0.20 each	21.40

395.90

RECEIVED
OCT 19 1970
RECEIVED

APPROVED
OCT 19 1970
FOR PAYMENT ✓

INVOICE N° 7891

143



304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: October 2, 1970

PROJECT: 120-33

PERIOD COVERED:

PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 273-B
FED. SALES TAX: N/A
ONT. SALES TAX: N/A

Cyprus Exploration Corp. Ltd.,
1101 - 510 W. Hastings,
Vancouver 2, B. C.

TERMS: NET

AUTHORITY: Mr. C. McFall - Your Proj: 143 "David Minerals"

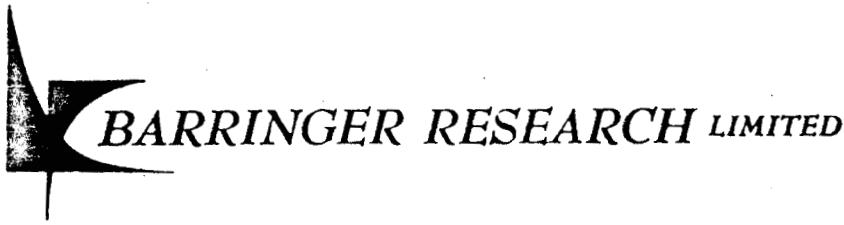
TO: Geochemical Analysis

✓ 336 Samples analysed for total copper	@ \$1.00 each	336.00
336 ✓ 336 Samples analysed for total moly.	@ \$2.50 each	840.00 837.50
✓ 336 Soil sample preparation	@ \$0.20 each	67.20

1240.70
~~1,243.20~~

RECEIVED
OCT 19 1970
REGISTERED

APPROVED
OCT 19 1970
FOR PAYMENT ✓



304 CARLINGVIEW DRIVE
 REXDALE, ONTARIO, CANADA
 PHONE: 416-677-2491
 CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: October 31, 1970

PROJECT: 120.33

- Cyprus Exploration Corp.
- Searchlight Exploration Corp.
- 1101 - 510 West Hastings St.
- Vancouver, B. C.

PERIOD COVERED:

PROGRESS BILLING:
 SHIPPING REPORT:
 WORK REPORT: 301-B
 FED. SALES TAX: N/A
 ONT. SALES TAX: N/A

TERMS: NET

AUTHORITY: Mr. Neil A. Thomsen, your Proj. David Minerals

143

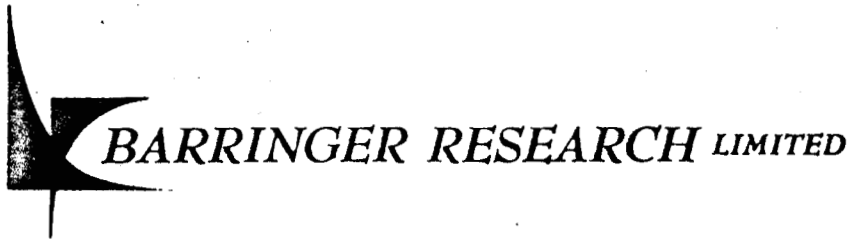
TO: Geochemical Analysis

✓ 414 Samples analysed for total copper	@ \$1.00 each	414.00
✓ 414 Samples analysed for total molybdenum	@ \$2.50 each	1,035.00
✓ 414 Soil sample preparation	@ \$0.20 each	82.80

1,531.80

APPROVED
 NOV 23 1970
[Signature]

RECEIVED
 NOV 17 1970
 RECEIVED



#143

304 CARLINGVIEW DRIVE
 REXDALE, ONTARIO, CANADA
 PHONE: 416-677-2491
 CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: November 25, 1970

PROJECT: 120.33

• Cyprus Exploration Corp. Ltd.
 1101 - 510 West Hastings St.,
 • Vancouver 2, B. C.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 317-B

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET

AUTHORITY: Mr. R. Woolverton/Mr. N. Thompson, your Project "David Minerals"

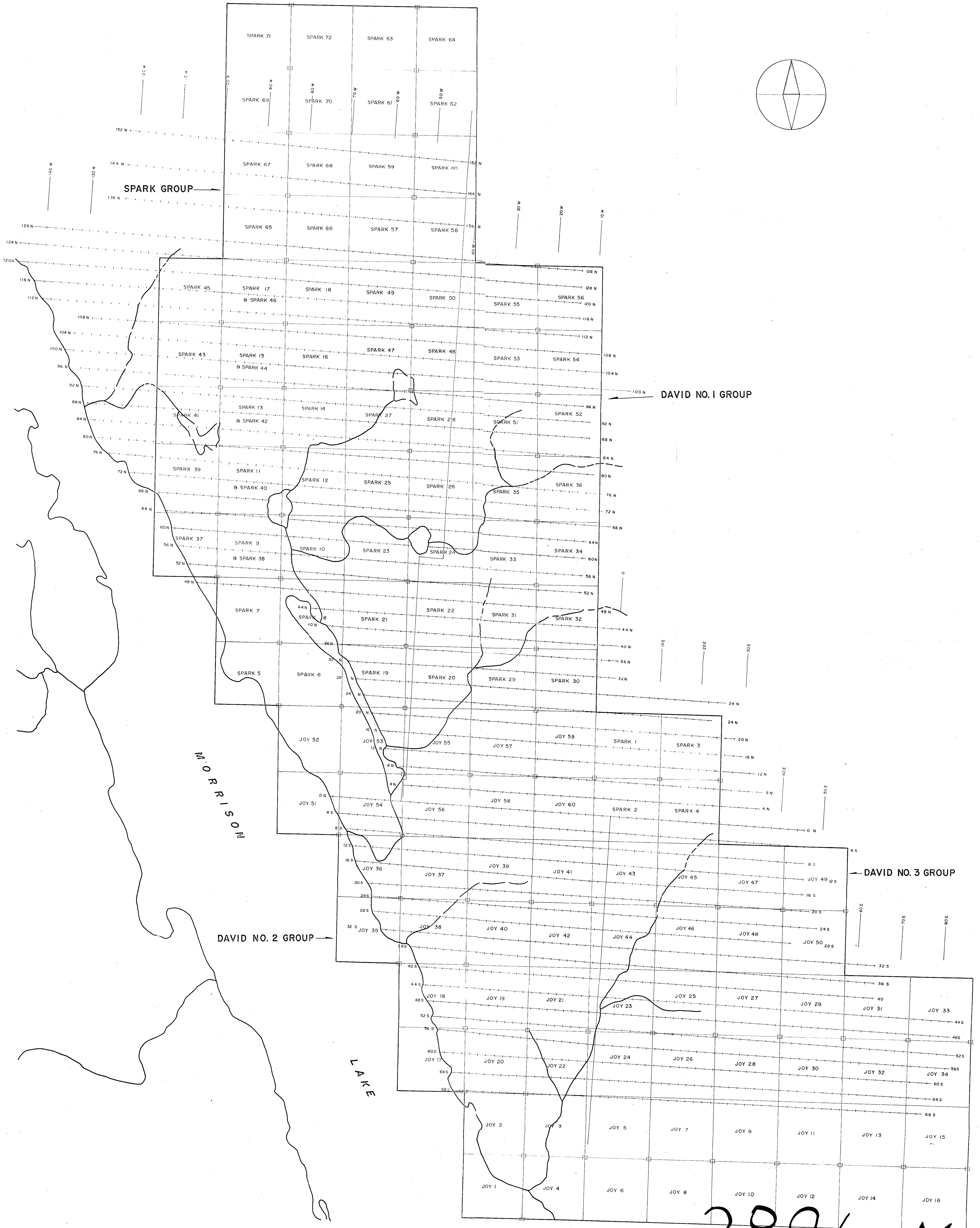
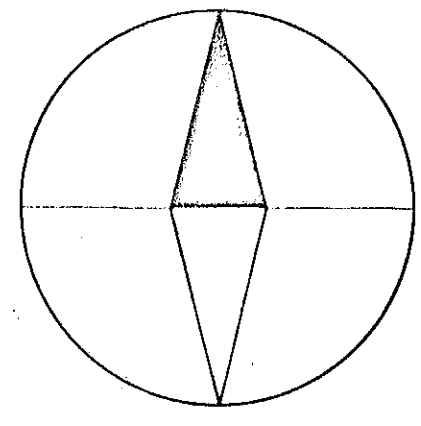
TO: Geochemical Analysis

1450				
1440	Samples analysed for total copper	@ \$1.00 each	1,440.00	1450.00
100	89 Samples analysed for HCL copper	@ \$1.00 each	99.00	100.00
1539	Soil sample preparation	@ \$0.20 each	307.80	310.00
1550				
				1,846.80
				1,860.00

I counted these myself - ink figures are correct
 [Signature]
 23/12/70

RECEIVED
 DEC 23 1970
BARRINGER RESEARCH LIMITED

APPROVED
 DEC 29 1970
 [Signature]

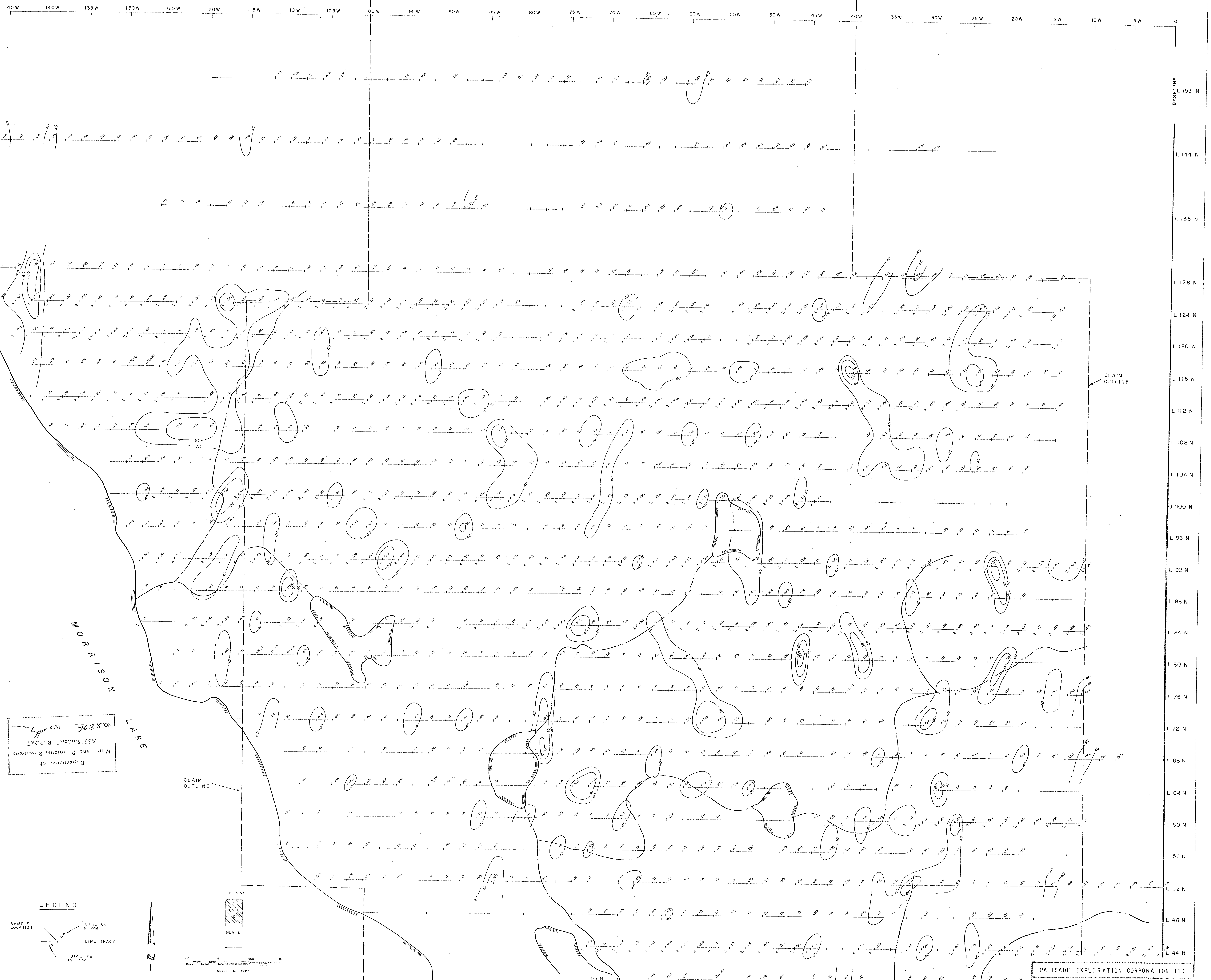


2896 M-1

TO ACCOMPANY A GEOLOGICAL AND GEO-CHEMICAL REPORT BY R. WOOLVERTON P. ENG. ON THE SPARK 1-72 AND JOY 1-60 CLAIMS. DATED 24 Feb 1971

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2896 M-1

PALISADE EXPLORATION CORPORATION, LTD.	
DAVID MINERALS PROJECT	
CLAIM MAP	
DESIGNED	C.L.C.
DRAWN	C.L.C.
CHECKED	
DATE	JAN. 1971
SCALE HOR.	1" = 800'
VERT.	
DWG. No.	



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 Map No. 2896
 72

LEGEND

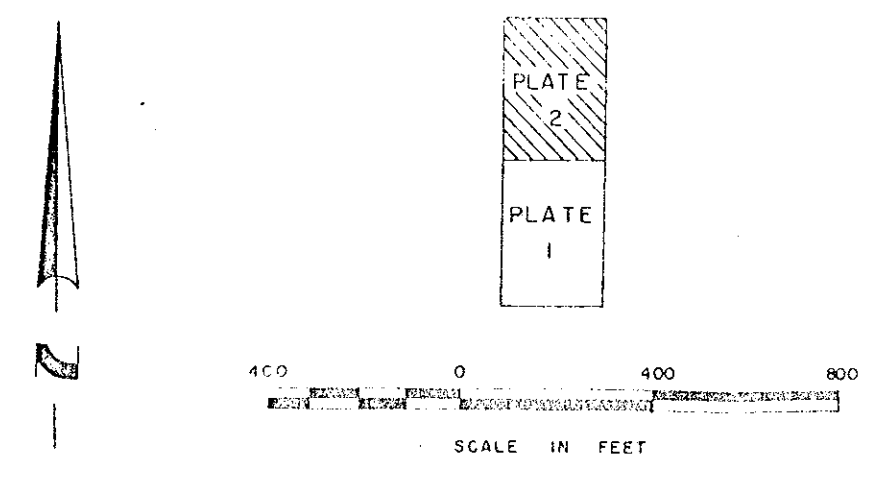
SAMPLE LOCATION

TOTAL Cu IN PPM

LINE TRACE

TOTAL Mo IN PPM

40, 80, 120 CONTOURS



TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
 R. WOOLVERTON P. ENG. ON THE SPARK 1-72 & THE JOY 1-60
 CLAIMS. DATED 26 Feb 1971

R. W. Roberts
2896
M-2

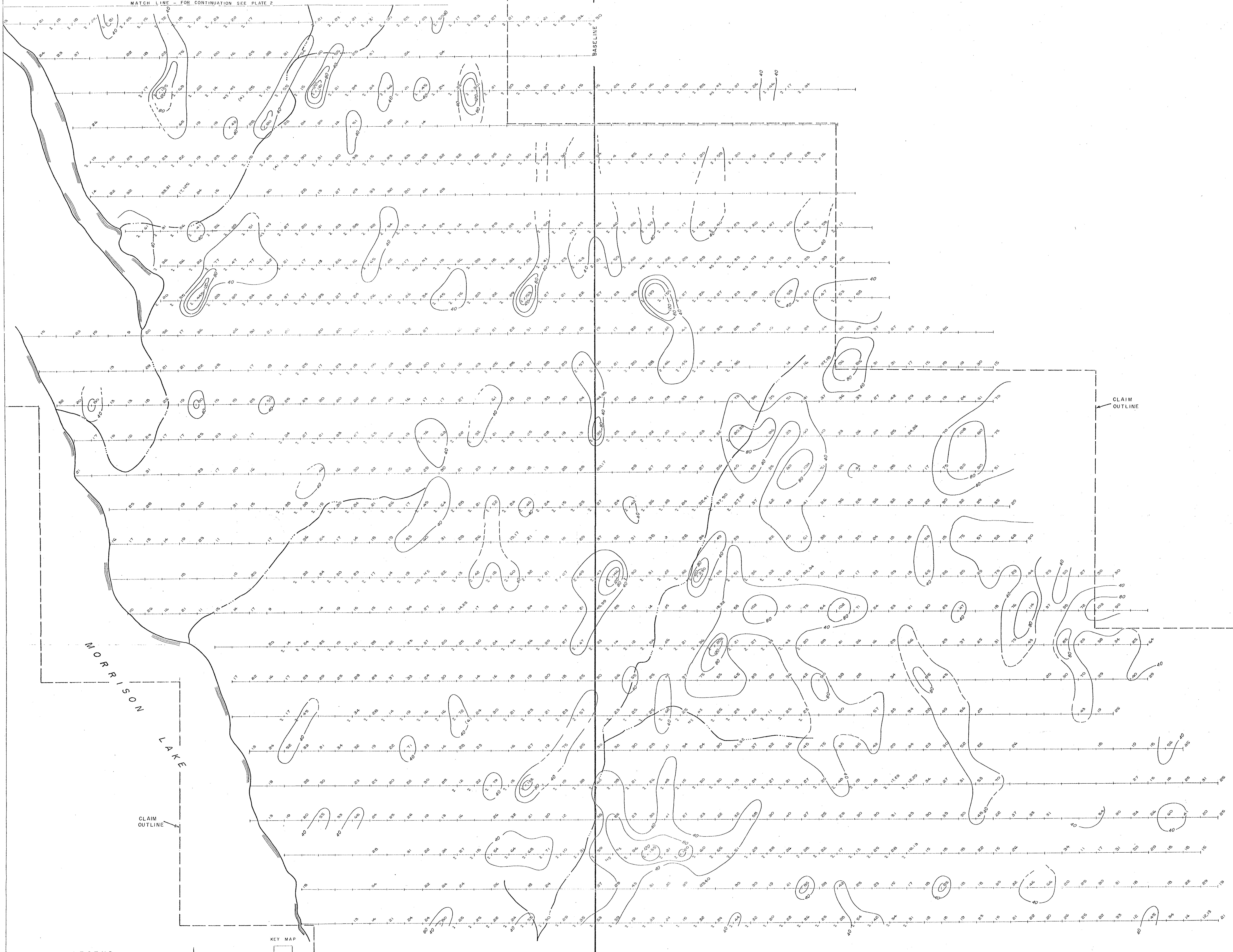
PALISADE EXPLORATION CORPORATION LTD.		
PLATE 2 — MORRISON LAKE		
OMINECA M.D. BRITISH COLUMBIA		
GEOCHEMICAL SURVEY		
TOTAL Cu & Mo IN PPM		
WORK BY	DRAWN BY	DATE
EVERGREEN EXPLORATIONS LTD.	VERSATILE DRAFTING LTD.	1 / 27 / 71

65W 60W 55W 50W 45W 40W 35W 30W 25W 20W 15W 10W 5W 0 5E 10E 15E 20E 25E 30E 35E 40E 45E 50E 55E 60E 65E 70E 75E

MATCH LINE - FOR CONTINUATION SEE PLATE 2

BASELINE

L 36 N
L 32 N
L 28 N
L 24 N
L 20 N
L 16 N
L 12 N
L 8 N
L 4 N
L 0
L 4 S
L 8 S
L 12 S
L 16 S
L 20 S
L 24 S
L 28 S
L 32 S
L 36 S
L 40 S
L 44 S
L 48 S
L 52 S
L 56 S
L 60 S
L 64 S
L 68 S

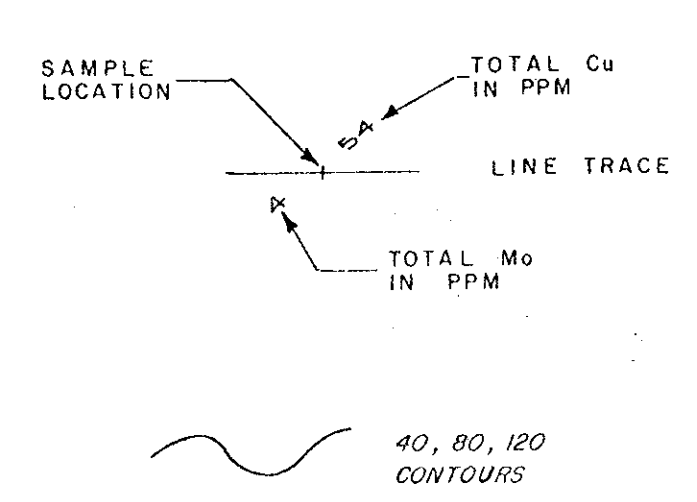


CLAIM OUTLINE

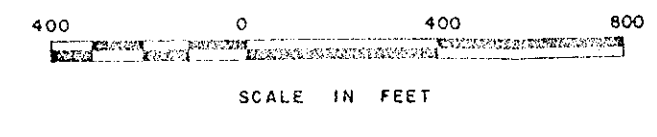
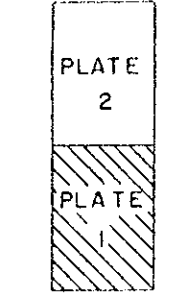
MORRISON LAKE

CLAIM OUTLINE

LEGEND



KEY MAP



TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY R. WOOLVERTON P. ENG. ON THE SPARK 1-72 & THE JOY 1-60 CLAIMS DATED 26 Feb 1971

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
2896 M-13

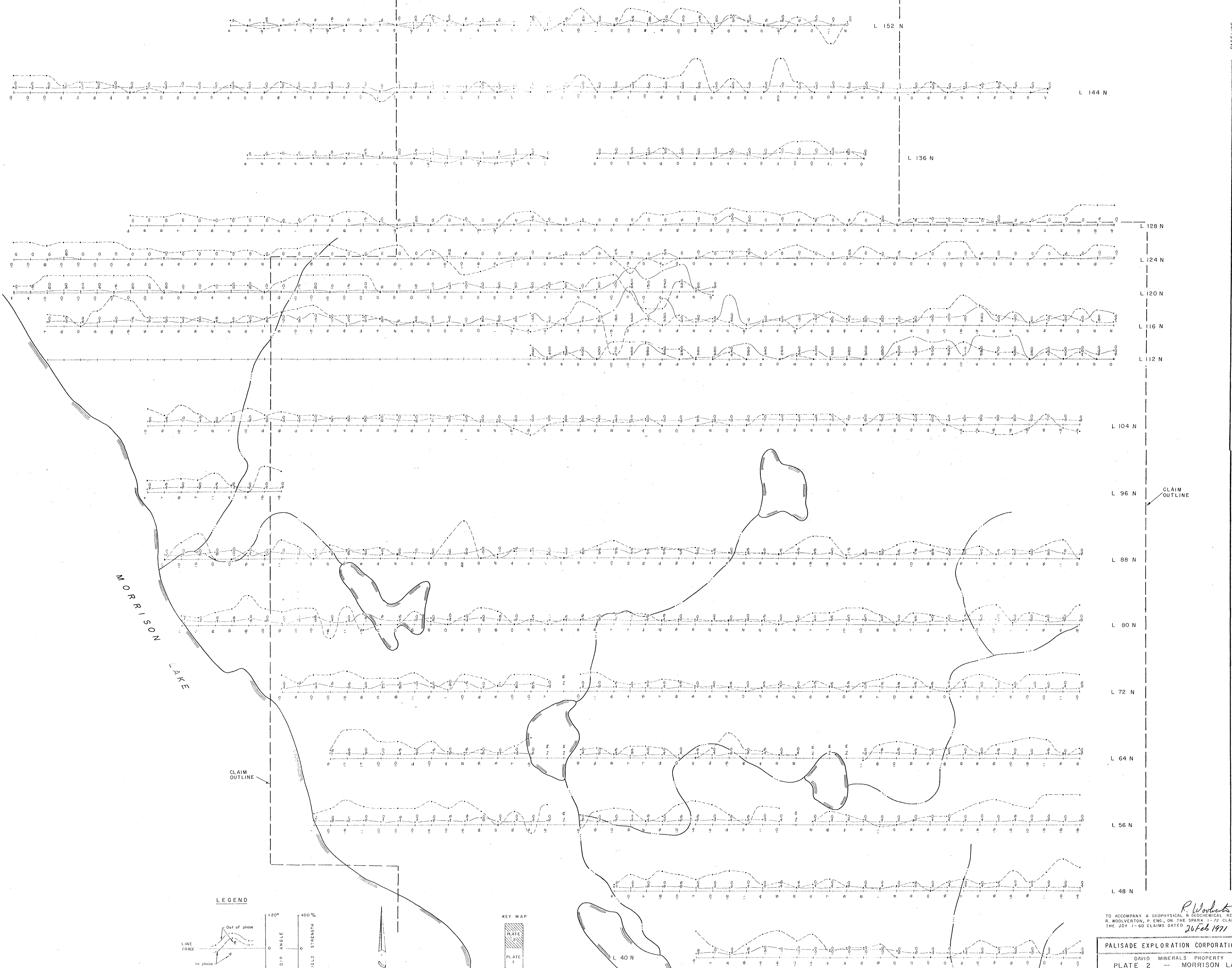
PALISADE EXPLORATION CORPORATION LTD.

PLATE I - MORRISON LAKE
OMINECA M.D. BRITISH COLUMBIA

GEOCHEMICAL SURVEY
TOTAL Cu & Mo IN PPM

WORK BY	DRAWN BY	DATE
VERDEEN EXPLORATION LTD.	VERSATILE DRYFIND LTD.	1/27/71

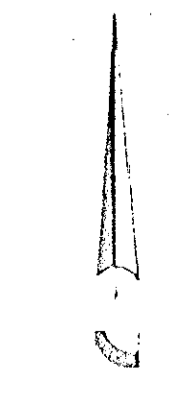
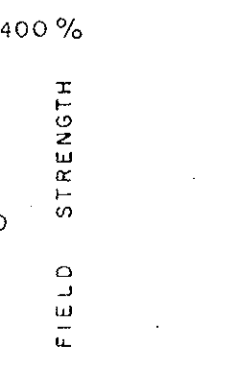
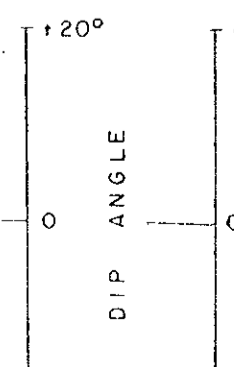
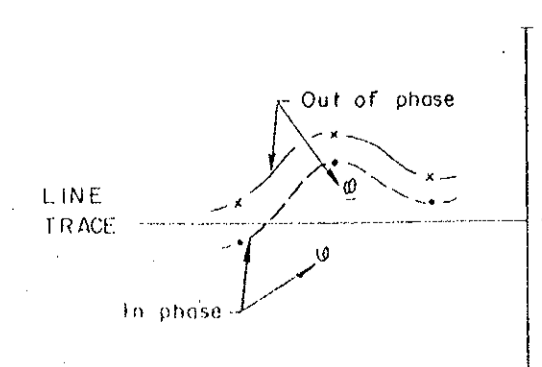
145W 140W 135W 130W 125W 120W 115W 110W 105W 100W 95W 90W 80W 75W 70W 65W 60W 55W 50W 45W 40W 35W 30W 25W 20W 15W 10W 5W 0



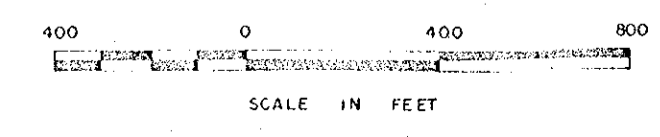
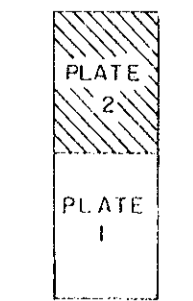
MORRISON LAKE

CLAIM OUTLINE

LEGEND



KEY MAP



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO 2896 MAP 241

R. Wood
TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
R. WOOD, P. ENG. ON THE SPARK 1-22 CLAIMS AND
THE JOY 1-60 CLAIMS DATED 26 Feb 1971

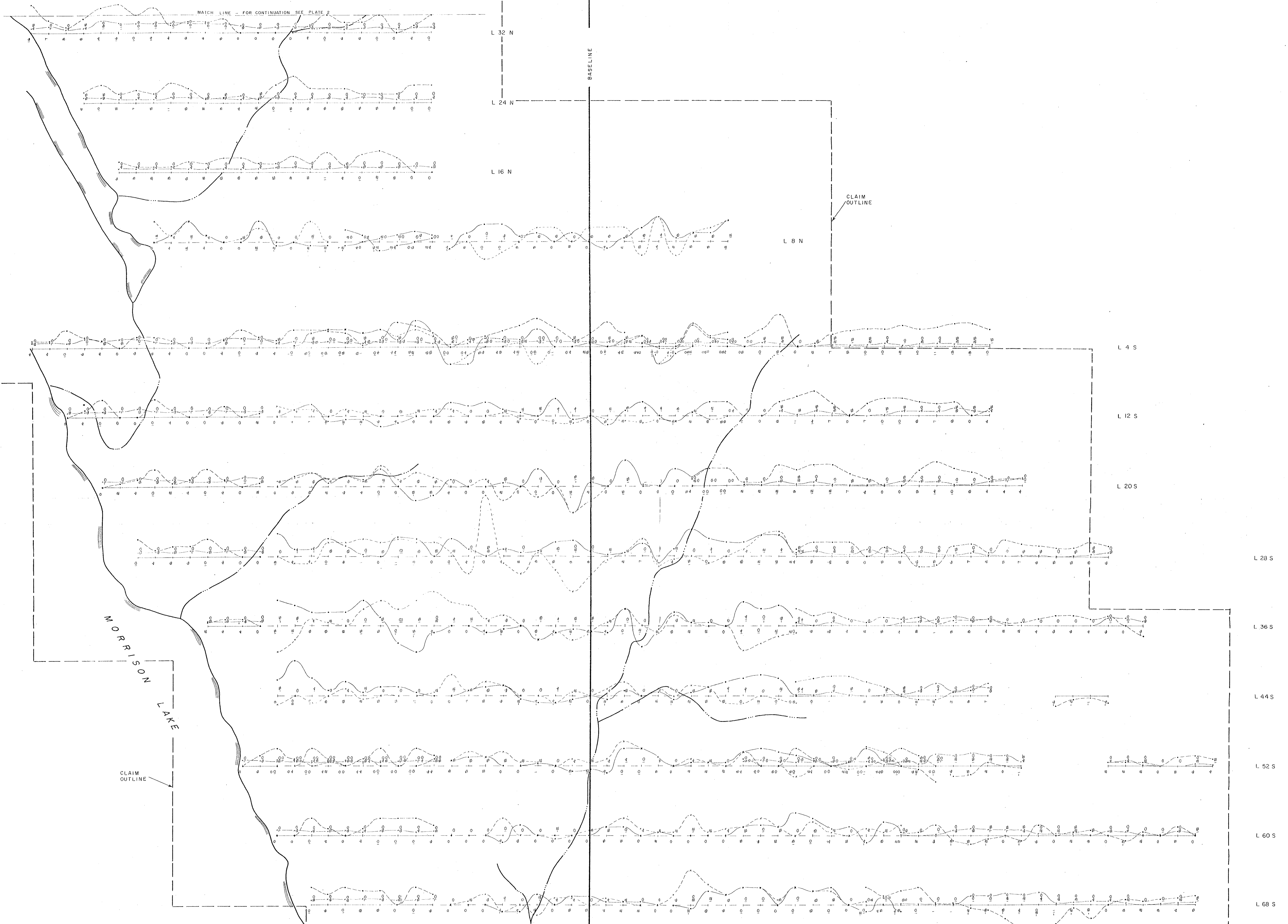
PALISADE EXPLORATION CORPORATION LTD.
DAVID MINERALS PROPERTY
PLATE 2 - MORRISON LAKE
OMNECA M. D. BRITISH COLUMBIA

RADEM SURVEY
SEATTLE, WASH. FREQUENCY

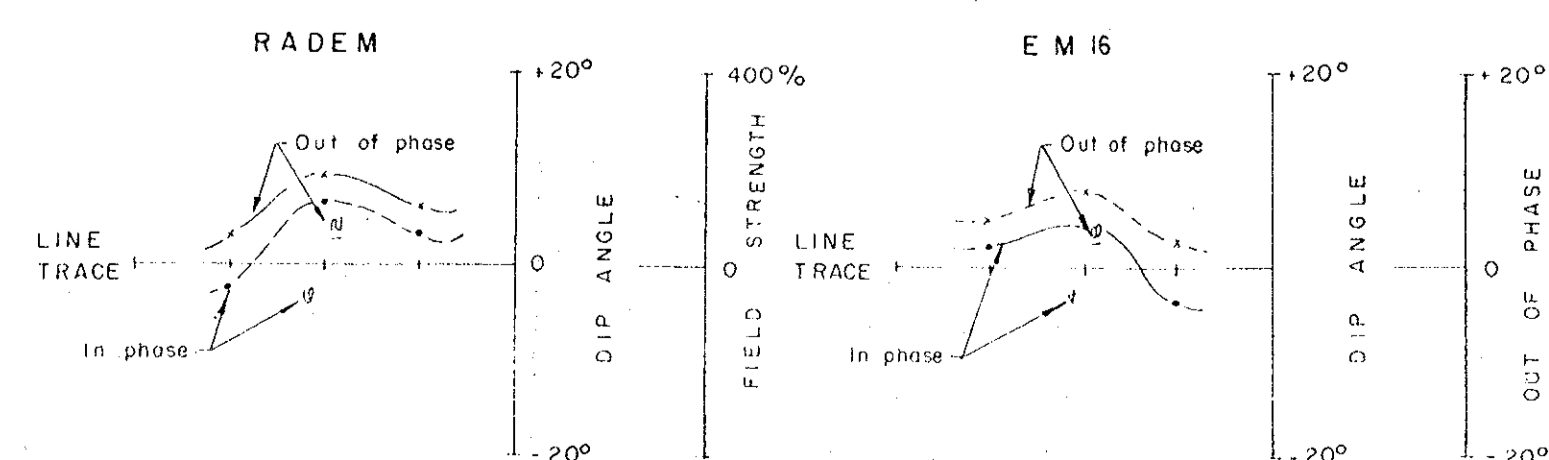
WORK BY	DRAWN BY	DATE
EVERGREEN EXPLORATIONS LTD.	VERDILE HAMMING LTD.	17 1971

MATCH LINE - FOR CONTINUATION SEE PLATE 1

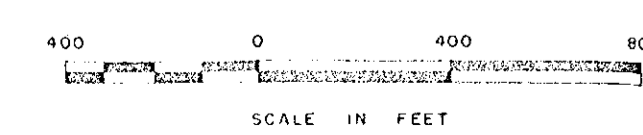
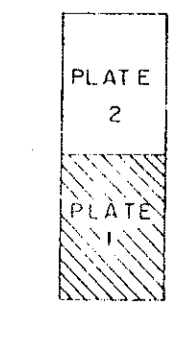
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LEGEND



KEY MAP



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2896 MAP #45

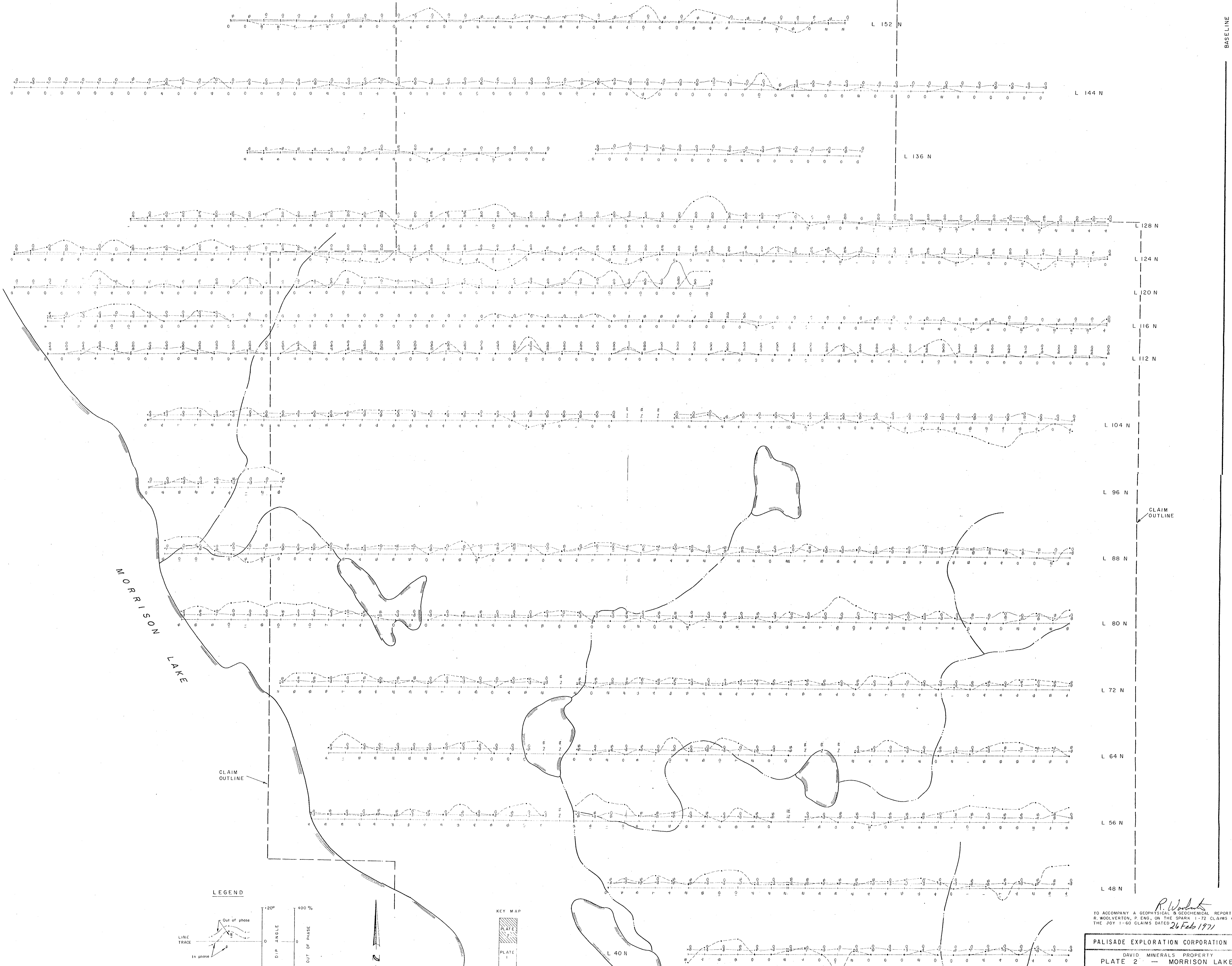
TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
H. WOODVERTON, P. ENG., ON THE SPARK 1-22 CLAIMS AND
THE JOY 1-60 CLAIMS DATED 26 Feb 1971

PALISADE EXPLORATION CORPORATION LTD.
DAVID MINERALS PROPERTY
PLATE I - MORRISON LAKE
OMINECA M.D. BRITISH COLUMBIA

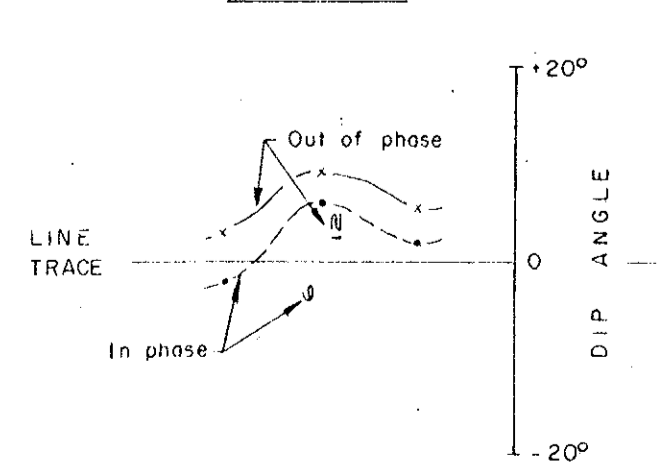
RADEM SURVEY
SEATTLE, WASH. FREQUENCY

WORK BY	DRAWN BY	DATE
VERBEN EXPLORATIONS LTD.	VERBEN EXPLORATIONS LTD.	1/27/71

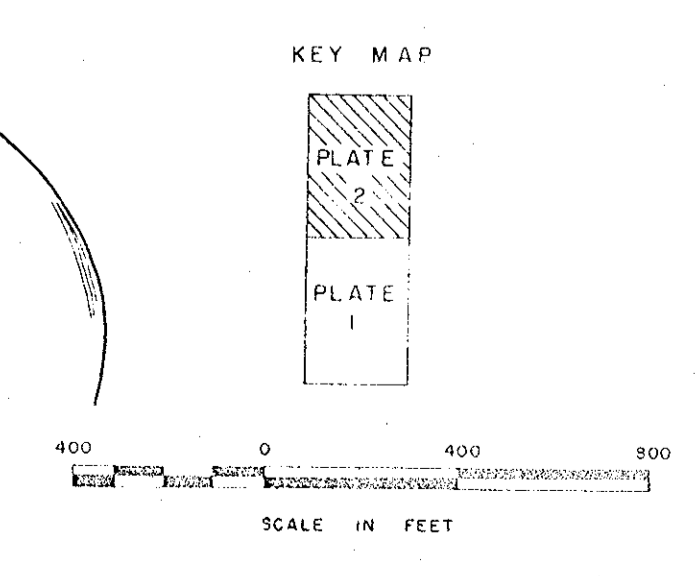
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LEGEND



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2896 MAP #6



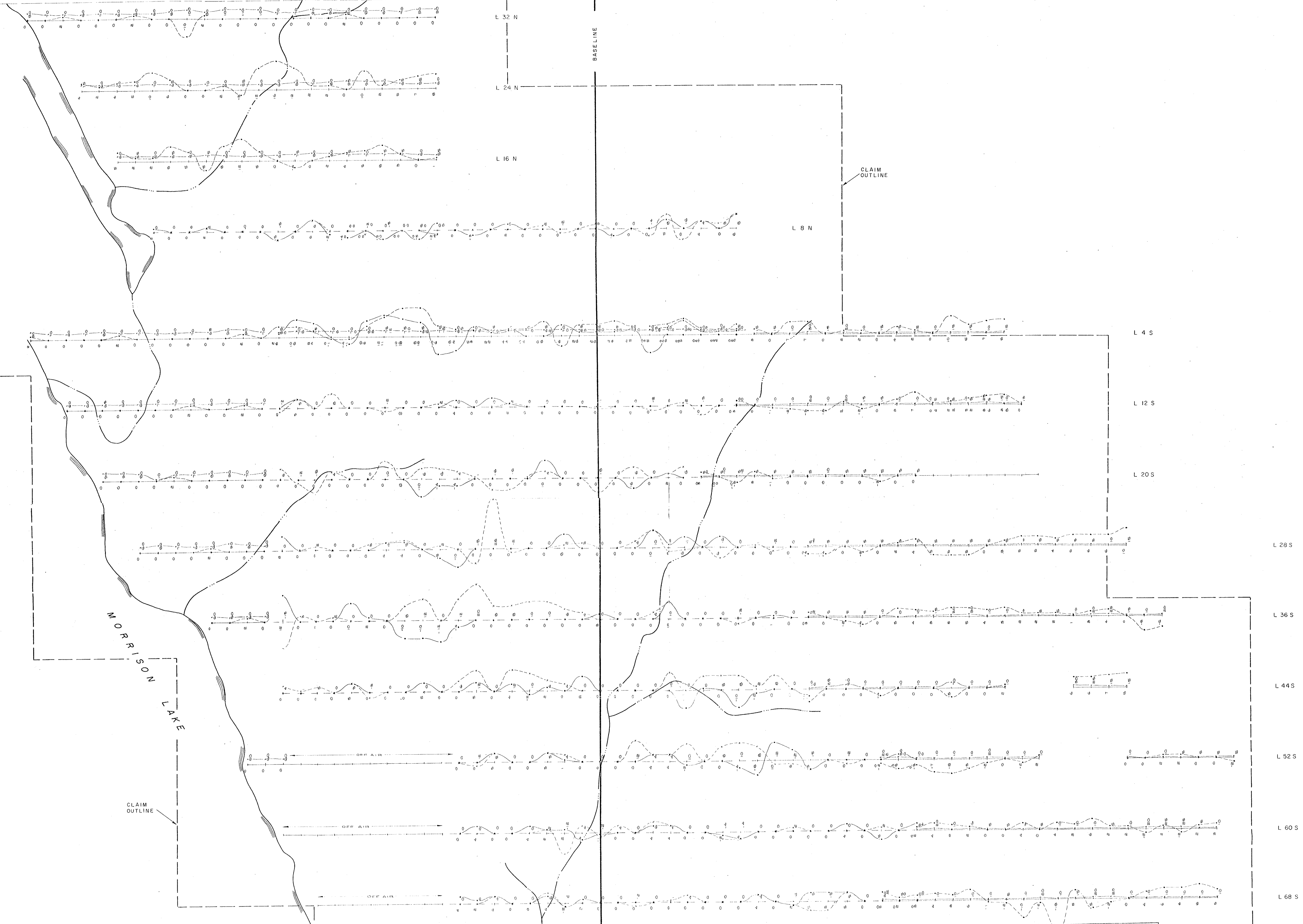
TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
R. WOOLVERTON, P. ENG. ON THE SPARK 1-72 CLAIMS AND
THE JOY 1-60 CLAIMS DATED 26 Feb 1971

PALISADE EXPLORATION CORPORATION LTD.		
DAVID MINERALS PROPERTY		
PLATE 2 - MORRISON LAKE		
OMINECA M.D. BRITISH COLUMBIA		
RADEM SURVEY		
CUTLER, MAINE FREQUENCY		
WORK BY	DRAWN BY	DATE
VERBEEK EXPLORATION LTD.	VERBEEK DRAWING LTD.	1/27/71

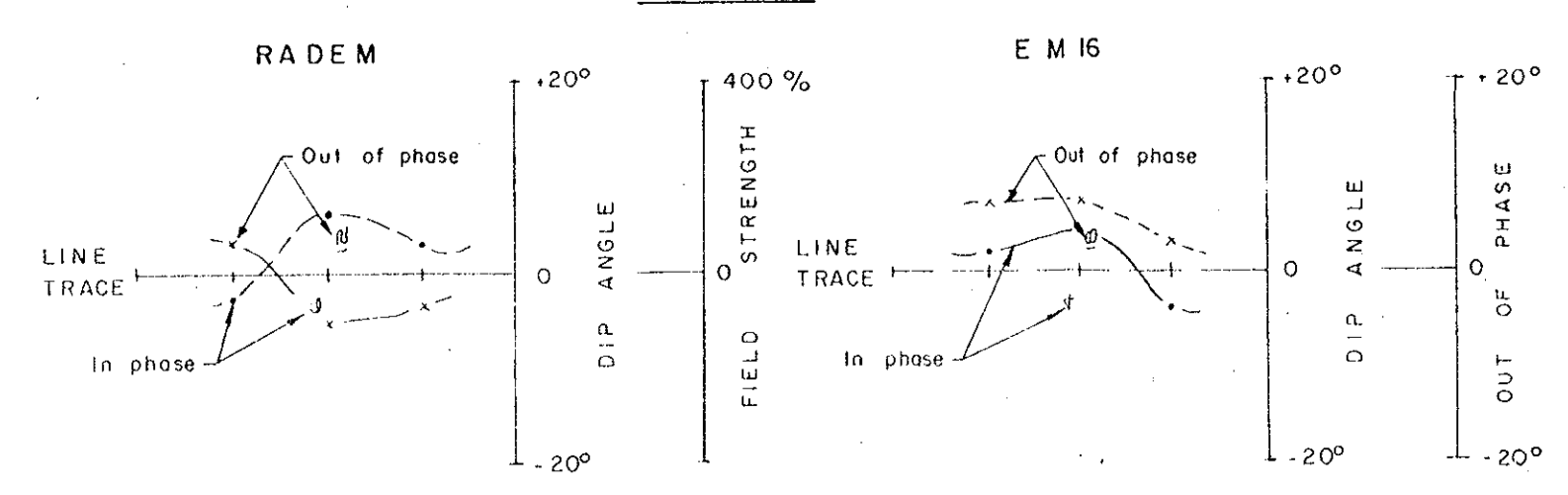
R. Woolverton

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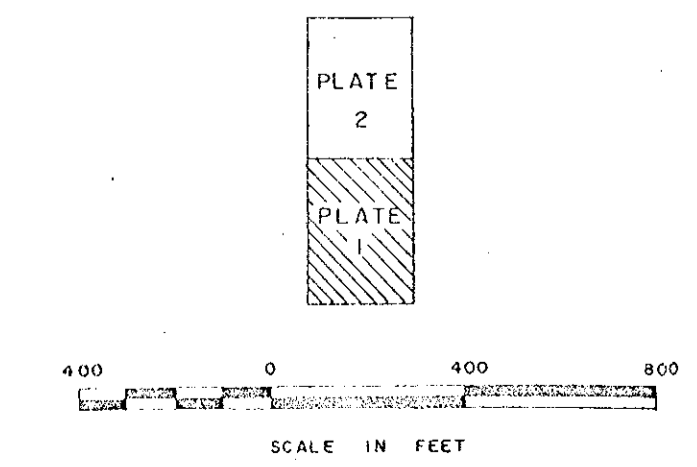
MATCH LINE - FOR CONTINUATION SEE PLATE 2



LEGEND



KEY MAP



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO 2896 MAP 417

R. Woolley
TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
R. WOOLLEY, P. ENG., ON THE SPARK 1-72 CLAIMS AND
THE JOY 1-60 CLAIMS DATED 24 Feb 1971

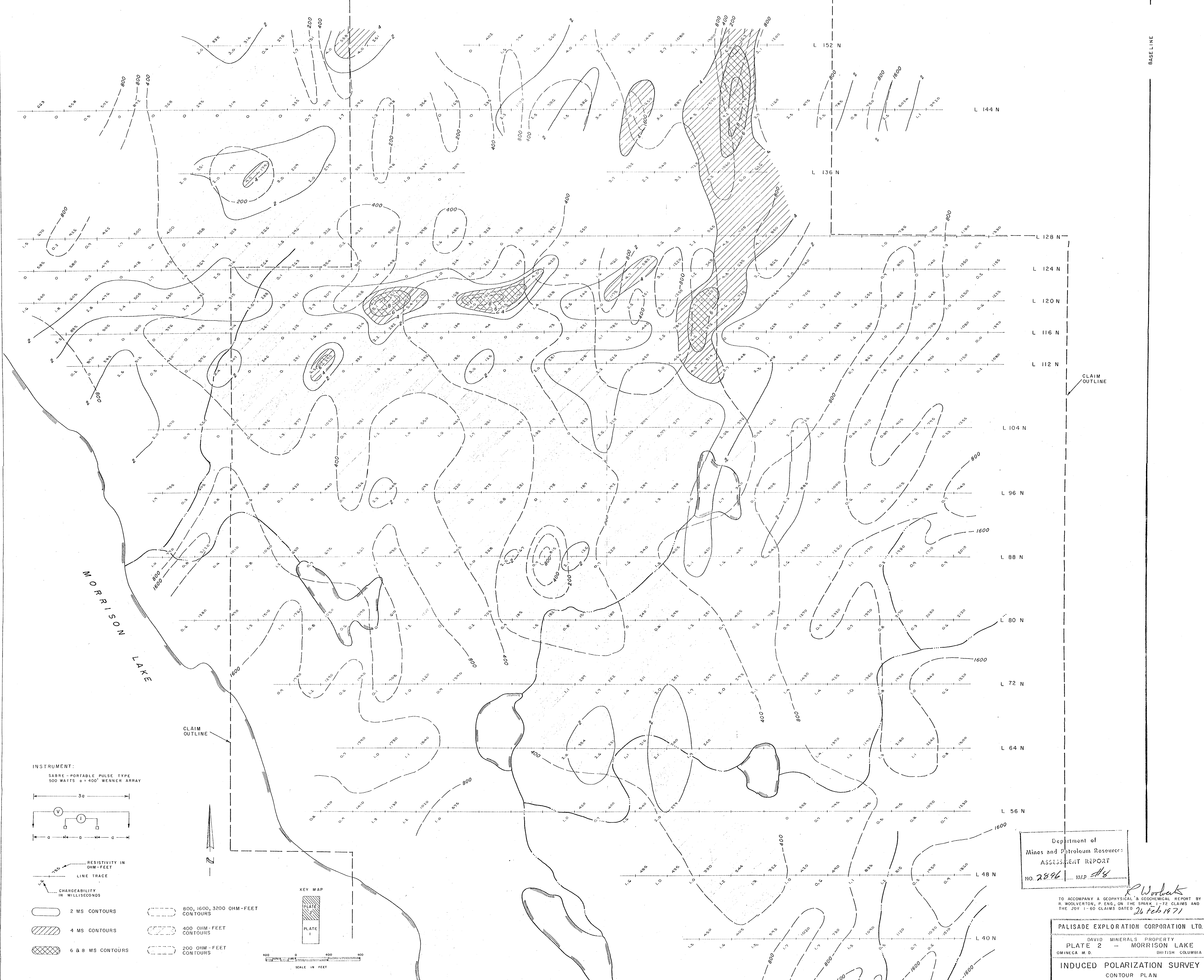
PALISADE EXPLORATION CORPORATION LTD.
DAVID MINERALS PROPERTY
PLATE I - MORRISON LAKE
OMINECA M.D. BRITISH COLUMBIA

RADEM SURVEY
CUTLER, MAINE FREQUENCY

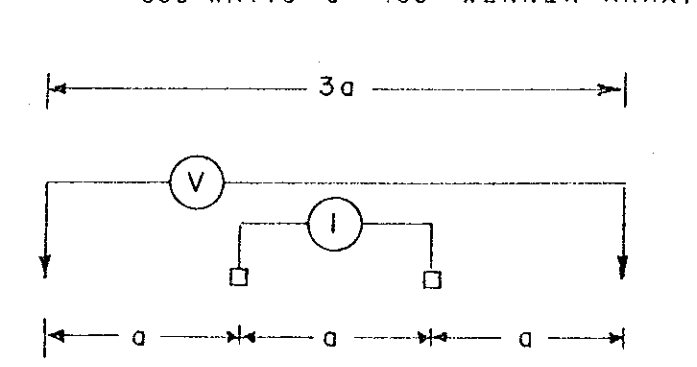
WORK BY	DRAWN BY	DATE
VEGETABLE EXPLORATIONS LTD.	VEGETABLE DRAFTING LTD.	1/27/71

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BASELINE



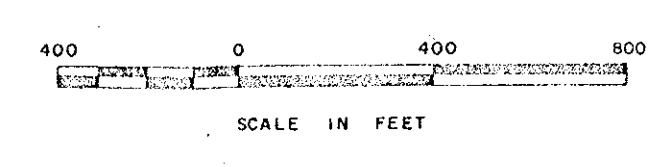
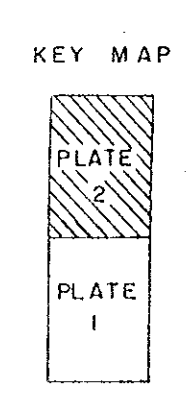
INSTRUMENT:
SABRE - PORTABLE PULSE TYPE
500 WATTS @ 400' WENNER ARRAY



RESISTIVITY IN OHM-Feet
LINE TRACE

CHARGEABILITY IN MILLISECONDS

- 2 MS CONTOURS
- 4 MS CONTOURS
- 6 & 8 MS CONTOURS
- 800, 1600, 3200 OHM-Feet CONTOURS
- 400 OHM-Feet CONTOURS
- 200 OHM-Feet CONTOURS



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2896 MAP 48

TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
R. WOODBURN, P. ENG. ON THE S.M.R.L. 1-72 CLAIMS AND
THE JOY 1-60 CLAIMS DATED 26 Feb 1971

PALISADE EXPLORATION CORPORATION LTD.
DAVID MINERALS PROPERTY
PLATE 2 - MORRISON LAKE
OMINECA M.D. BRITISH COLUMBIA

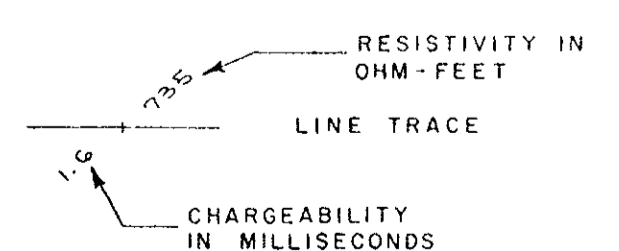
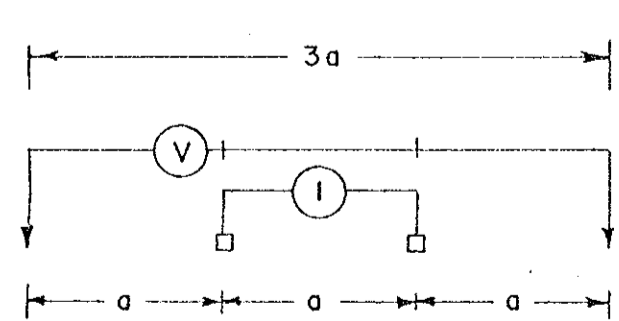
INDUCED POLARIZATION SURVEY
CONTOUR PLAN

WORK BY	DRAWN BY	DATE
EVERETT EXPLORES/SHL	VERMOREL DRAFTER LTD.	1/27/71

60W 55W 50W 45W 40W 35W 30W 25W 20W 15W 10W 5W 0 5E 10E 15E 20E 25E 30E 35E 40E 45E 50E 55E 60E 65E 70E 75E

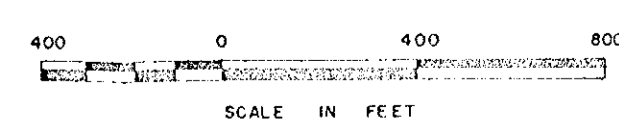
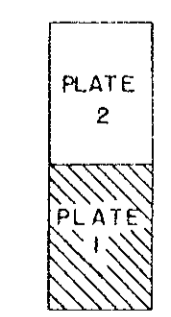


INSTRUMENT:
SABRE - PORTABLE PULSE TYPE
500 WATTS @ 400' WENNER ARRAY



- 2 MS CONTOURS
- 4 MS CONTOURS
- 6 & 8 MS CONTOURS
- 800, 1600, 3200 OHM- FEET CONTOURS
- 400 OHM- FEET CONTOURS
- 200 OHM- FEET CONTOURS

KEY MAP



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO 2896 AND #9

TO ACCOMPANY A GEOPHYSICAL & GEOCHEMICAL REPORT BY
H. WOOLVERTON, P. ENG., ON THE SPARK 1-72 CLAIMS AND
THE JOY 1-60 CLAIMS DATED 26 Feb 1971

PALISADE EXPLORATION CORPORATION, LTD.
DAVID MINERALS PROPERTY
PLATE 1 - MORRISON LAKE
BRITISH COLUMBIA
INDUCED POLARIZATION SURVEY
CONTOUR PLAN

WORK BY	DRAWN BY	DATE
GEOPHYSICAL CONSULTANTS LTD.	REPETITTE JOHN (M. LTD)	1/27/71